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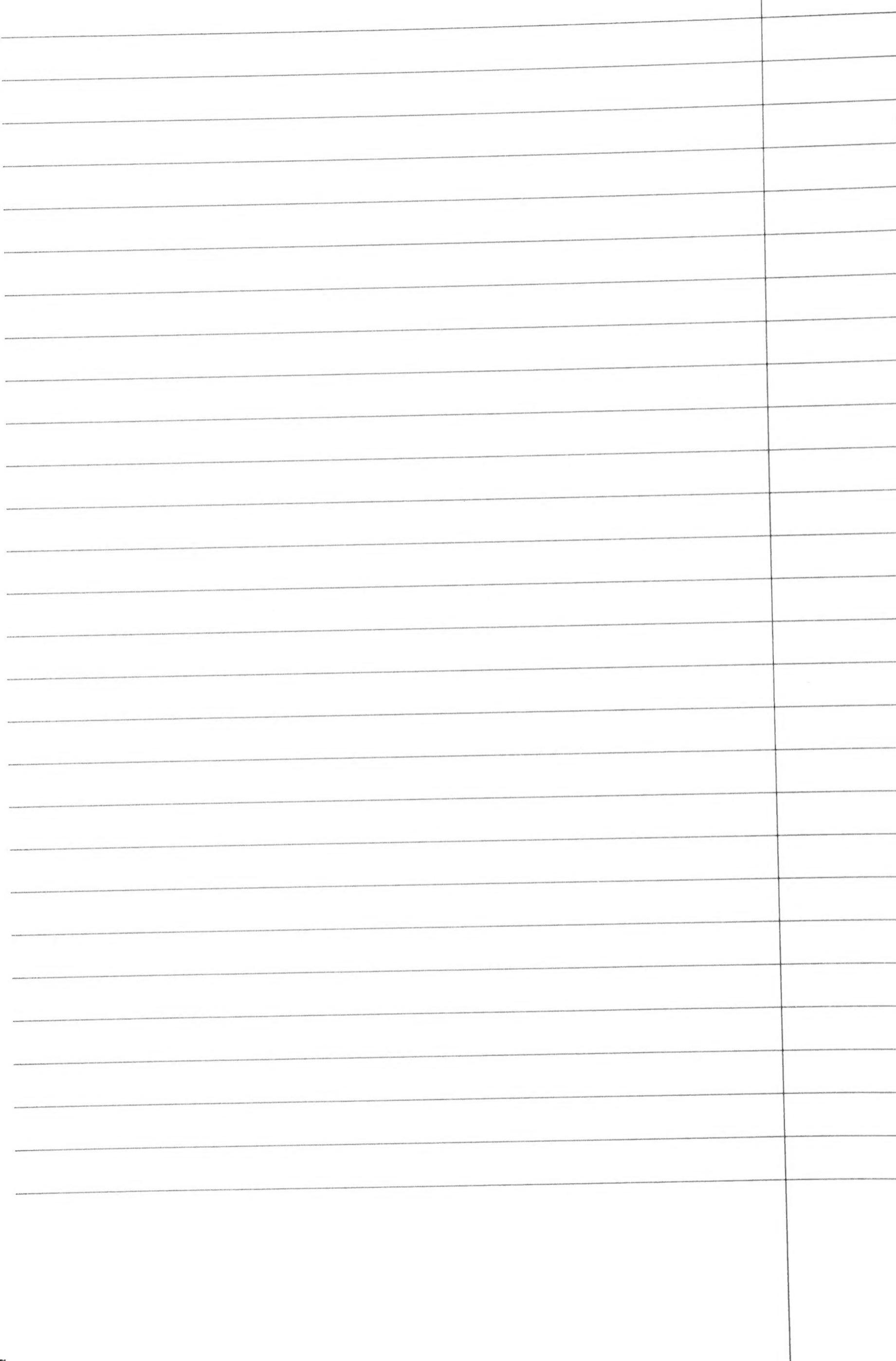
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# General Index

J. I. Smith

1988-1991

Catalogue  
Journal 1988-1989  
Species Accounts



J. I. Smith

1988-1991

Catalogue #100-275



Smith, J.  
1988

Catalog

1

JS 100

Song Sparrow Melospiza melodia

1 mi W Hobart  
M. 115 600 ft

Prosser Creek 3.3 mi. S of Sascha Creek Field Station

5840 ft

Nevada Co., Calif.

28 June 1988. Huge cloacal protuberance 7mm  
No brood patch, ~~Melospiza~~ <sup>little</sup> fat. Lots of glandular tissue  
surrounding cloacal protuberance. Liver, heart, breast,  
kidney. Looks like dragon fly larvae in mouth 25mm  
Testes L 10.5 x 7.6mm R 8.5 x 7.5mm. Skin partial skel.

1 mi W Hobart Male 5840  
soft

JS 101

Prosser Creek 3.3 mi. S of Sascha Field station, Nevada Co., CA

Melospiza melodia fisherella. 29 June 1988. 20.65g

Cloacal protuberance 6.82mm, no brood patch. Little fat.  
Glandular tissue of protuberance. Liver, heart, muscle  
Kidney taken. Crop empty. Testes R 7.87 x 6.98mm  
L 9.21 x 6.23mm. Skin partial skel

JS 102

Melospiza melodia fisherella 29 June 1988. 21.4g

♂, no fat, sk. ossified. crop empty T L 9.5 x 7.0mm  
R 8.5 x 8.1mm. Tissue taken sk. oss. skin partial skel

JS 103

Melospiza melodia fisherella 29 June 1988. 22.0g ♂<sup>ad.</sup> sk. oss.

Cloacal protuberance 7.58mm. No brood patch. crop empty.  
Testes ~~L~~ 9.73 x 6.20mm; R 8.51 x 7.09mm. Tissue  
taken. Skin partial skel. Little fat. ♀

JS 104

M. melodia fisherella ♀. 29 June 1988. wt. 18.7g. Non-vascular  
brood patch. Ovary 7.6 x 5.5mm largest follicle = 1.7mm. Netted  
with juvenile. JS 105. Net by Prosser Creek. No fat. Tissues taken

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Suth, J  
1988

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<sup>5840</sup>  
~~lui W Hobart Mills, soft~~  
Prosser Creek 3.3 mi S Sagebrush Field Sta and Nevada Co., California

JIS105 Melospiza melodia fisherella juv. ♀ wt. 17.9g 29 June 1988  
Little fat. Ovary 1.5 x 2 mm - pinkish. Netted with female  
JIS 104 near stream. gape yellow. Tissues taken

JIS106 Melospiza melodia fisherella juv. ♀ wt 18.5gm sk. not oss.  
Ovary 2.2 x 1.3 mm no fat. Gave buzzy calls in hand (not recorded)  
29 June 1988 Tissues taken.

JIS107 Melospiza melodia fisherella ad ♂ 7.3 mm cloacal protuberance  
wt. 20.0g. T: L 8.0 x 5.9; R 6.9 x 5.8. no fat.  
29 June 1988 no brood patch. Tissues taken

JIS108 Melospiza melodia fisherella ♂ ad. sk. 29 June 1988 wt. 19.35g  
T: L 8.68 x 6.02 mm; R 7.7 x 6.4 mm slight fat. no brood patch  
Tissues taken

JIS109 Melospiza melodia fisherella ♂ ad sk cloacal protuberance 7.31mm  
29 June 1988 Teste L 8.72 x 6.25; R 8.09 x 6.81mm. slt fat  
wt 21.2g no brood patch. Tissues taken.

JIS110 Melospiza melodia fisherella ♂ ad. 29 June 1988. no fat. wt. 20.0g  
7.3mm cloacal protuberance. Testes L 8.0 x 5.9mm;  
R 6.9 x 5.8mm.

JIS110 Melospiza melodia fisherella ♂ ad 30 June 1988. slight fat  
cloacal protuberance 6.41mm. Testes L 8.78 x 6.18mm;  
R 8.49 x 6.90mm no brood patch. Tissues taken

JIS111 Melospiza melodia fisherella ♂ ad. 30 June 1988. slight fat  
cloacal protuberance 7.16mm. Crop empty. Testes L 8.55  
x 6.16mm; R 8.02 x 6.98mm. no brood patch. Tissues Taken

JIS112 Melospiza melodia fisherella ♂ ad. 30 June 1988. slight fat  
wt. ~~19.8~~ 19.80g. Cloacal protuberance 6.41. Testes L 7.80 x 5.84;  
R 6.62 x 6.54mm no brood patch Tissues taken



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Prosser Creek, 3.3 mi S of Sagehen Field Station and 1 mi W of Hobart Mills,  
Nevada Co., Calif.

J15113 Melospiza melodia fisherella. ♂ ad. 30 June 1988. wt. 22.0g  
slt. fat. Cloacal protuberance 6.14mm. Testes L 8.44 x 5.92mm  
R 6.54 x 7.1mm no brood patch Tissues taken

J15114 Melospiza melodia fisherella. ♂ ad. 30 June 1988. wt 19.30g  
slt. fat. Cloacal protuberance 6.50mm. Testes L 9.95 x 5.51;  
R testis is larger. no brood patch. Tissues taken.

J15115 Melospiza melodia fisherella. ♂ ad 1 July 1988. wt 19.25g  
mod. fat. no brood patch. Cloacal protuberance 4.31mm  
crop empty. Testes L 9.10 x 6.36mm; R 8.36 x 6.50mm  
Tissues taken Poss note J15116

J15116 Melospiza melodia fisherella ♀ ad sk 1 July 1988. wt 20.25g  
Brood patch. mod. fat. Cloacal protuberance 4.35mm.

Largest follicle 2.28mm. Crop empty. Tissues taken. Poss. mate J15115

J15117 Melospiza melodia fisherella. ♂ ad sk. 1 July 1988. wt 18.70. mod fat  
Cloacal protuberance 4.59mm. Testes L 8.55 x 5.93;  
R 6.91 x 6.93mm. No brood patch. Crop empty -  
Tissues Taken

Alder Creek, 4 mi W Hobart Mtns (cont)  
Nevada Co., California

J15118 Melospiza melodia fisherella ♀ ad. 2 July 1988. wt 20.8g  
L. little fat. Oviduct enlarged, active brood patch, avay 8.4 x  
5.3mm, largest follicle = 1.9mm. Tissues taken

J15119 Melospiza melodia fisherella. ♂ ad. 2 Jul, 1988. wt 21.95g  
cloacal protuberance 4.81mm, no brood patch, Testes:  
L 9.15 x 6.45mm ad R 8.09 x 6.73mm. Slt. Fat  
Crop empty



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Russell Tree Reservation, 2 mi NW Collo, Lafayette, Contra Costa Co., Calif. 130 ft

- J15120 Melospiza melodia gouldii ♀ ad. sk. 17 Mar 1989. wt —  
left ovary  no broodpatch. mate of J15121. Tissue saved.  
stomach saved. Tail molt. banded 2031-08906 / <sup>YU/FW</sup> <sub>WH</sub> FOR  
Taken by Sharp-shinned Hawk in mist net. skin: partial skel.
- J15121 Melospiza melodia gouldii. ♂ ad sk. 17 Mar 1989 wt 19.5g  
 testes. no broodpatch. mate of J15120. Tissue saved  
gonads and stomach saved. Tail molt. Taken by Sharp-  
shinned Hawk while caught in mist net. skin: partial skel.
- J15122 Melospiza melodia gouldii ♂ ad. sk. 6 May 1989. wt 19.0g  
6.11 x 5.70mm  
left Testes 6.41x 8.42mm. cloacal protuberance ~~6.22~~ ~~7.22~~ mm  
mate of J15123. Banded 2031-08942 / <sup>YU/FW</sup> <sub>BL</sub> <sup>FW</sup>  
sitting on 4 young of FW/BK's (J15130 & 131) nestlings  
are J15124-127. Their young were raised by FW/BK's and are  
J15128-9. Tissue saved but no kidney. cloacal  
protuberance 6.11x 5.70mm stomach saved. skin: partial skel
- J15123 Melospiza melodia gouldii ♀ ad. sk. 6 May 1989. wt 15.5g  
left ovary 6.49x 3.17mm. mate of J15122. cloacal  
protuberance 3.66x 3.69mm. Tissue saved but no kidney.  
Raised 4 nestlings (J15124-7) of FW/BK's. Her actual  
young are J15128-9 which were raised by J15130 & 131.  
Banded 2031-08941 / <sup>YU/FW</sup> <sub>PK/YL</sub> <sup>SKIN</sup> stomach saved. partial skel
- J15124 Melospiza melodia gouldii imm. (~9days) 6 May 1989.  
wt. 12.5g. cloacal protuberance 2.5x 3.89mm. Tissue  
saved but no kidney. stomach saved. Nestling of J15130 & 131  
but reared by J15122 & 123. Banded 2031-08940 / <sup>YU/FW</sup> <sub>WH</sub> FOR  
sib of J15125-127. skin and partial skel.

10 April  
1968

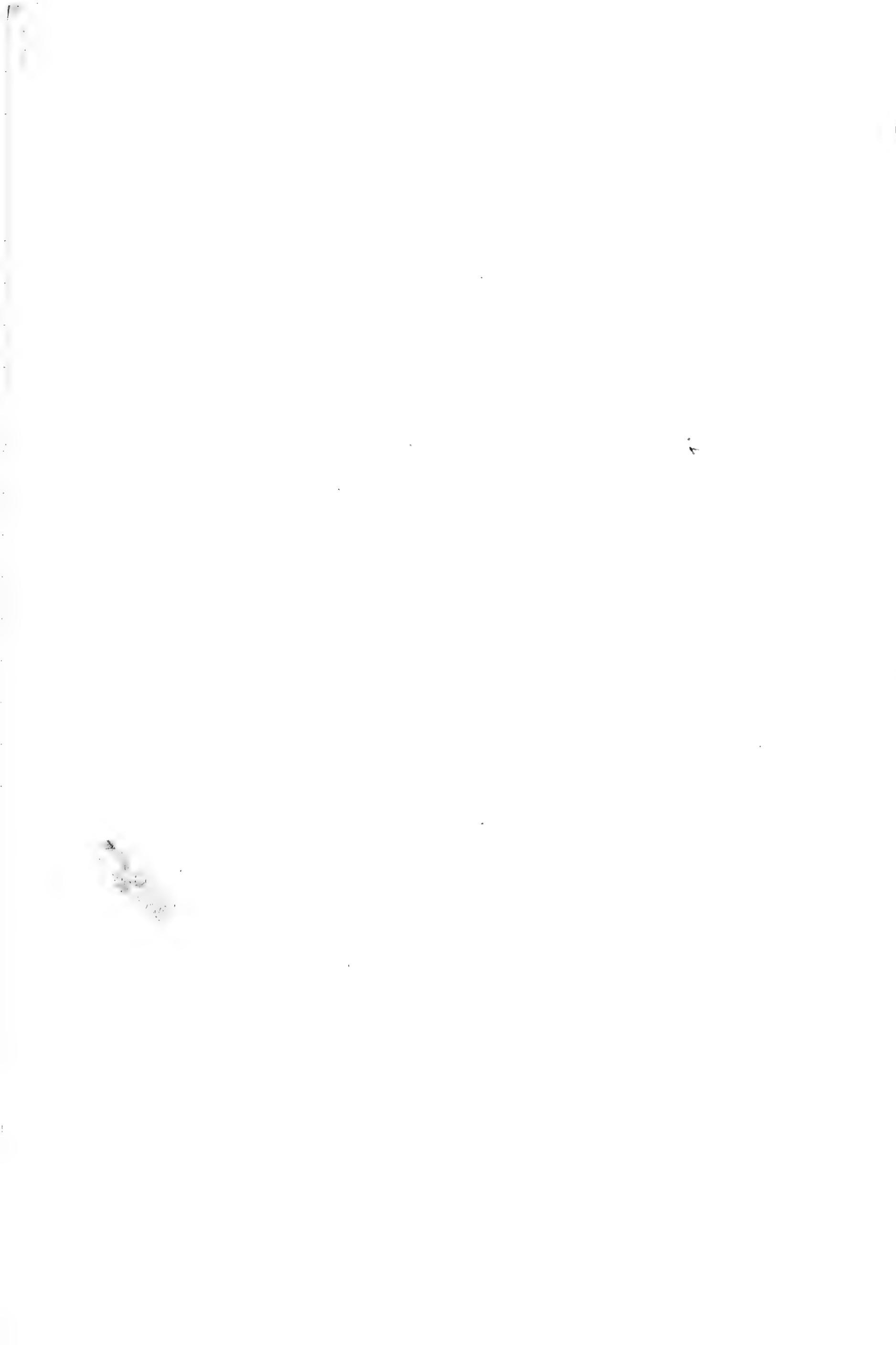
March, 1989

# Catalog

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Russell Game Reservation, 2 mi. NW Lafayette, Contra Costa Co., Calif. 1380 ft.

- J15125 Melospiza melodia gouldii, imm. <sup>~9 days</sup>. 6 May 1989. wt 13.0g  
nestling of J15130-131 but reared by J15122, 123. 516 of  
J15, 124-126-7. Tissue saved but no kidney. <sup>Banded 2031-08939</sup> 4/FW 80/wh  
skin; partial skull. stomach saved.
- J15126 Melospiza melodia gouldii imm. <sup>~9 days</sup>. 6 May 1989. wt 14.5g  
nestling of J15130-131 but reared by J15122, 123. 516 of J15124-  
and 127. Tissue saved but no kidney. <sup>Banded 2031-08939/</sup> 4C FW BK  
skin; partial skull. stomach saved.
- J15127 Melospiza melodia gouldii imm. <sup>~9 days</sup>. 6 May 1989. wt 14.0g  
nestling of J15130-131 but reared by J15122, 123. 516 of J15124-126.  
Tissue saved but no kidney, stomach saved. <sup>Banded 2031-08940</sup> 4C FW BK  
skin; partial skull.
- J15128 Melospiza melodia gouldii imm. <sup>~9 days</sup>. 8 May 1989. wt 14.5g.  
nestling of J15122, 123 but reared by J15130-131. 516 of J15129.  
Tissue saved. cloaca 3.20 x 4.47 mm. wing length 35.51  
10's emerged 12.25 mm. Back feathers 17.04 mm emerged 10.94 mm  
Only 1 ulna saved, both tibia broken. stomach saved.  
<sup>Banded 2031-08947/</sup> 4C BK DR/wh skin ad partial skull.
- J15129 Melospiza melodia gouldii imm. <sup>~9 days</sup>. 8 May 1989. wt 13.75g  
nestling of J15122, 123 but reared by J15130-131. 516 of J15128.  
Tissue saved. stomach saved. cloaca 4.12 x 3.75 mm  
wing length 39.13 Third from outer 10's emerged 15.63 mm. Back 16.28 mm  
12-14 emerged. On left s. de 3 10's pulled out during prep. Only one 1  
ulna saved. skin; partial skull. <sup>Banded 2031-08946/</sup> 4C GR/B C
- J15130 Melospiza melodia gouldii ♀ ad sk. 8 May 1989. wt. 14.75g  
left wing 5.69 x 7.08 mm. Brood patch present. mate of J15131.  
cloacal protuberance 4.59 x 4.95 mm. Tissue saved. Stomach  
saved. Reared J15128-129, but parent of J15124-127.  
wing length 53.06, Tail length 57.32 mm, Tarsus 13.17, Middle toe 10.06,  
hallux width 13.53, Bill length 8.06, Bill depth 5.55, Bill width 4.66, Brood patch <sup>10</sup> molt.



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Russell Inn Reservation, 2 mi NW Lafayette, Contra Costa Co., Calif., 1300 ft.

J15 131 Melospiza melodia gouldii ♂ ad. St. 8 May 1989. wt 20.0g  
Testes L - 11.20 x 6.54 mm R - 9.12 x 8.25 mm. Cloacal  
protuberance 6.89 x 6.08 mm. Tissue saved. stomach  
saved. Parent of J15 124-127, mate of J15 130. Reared  
J15 128-129. Banded 2031-<sup>08914</sup>~~08908~~, FW/BK PK/YL.  
Bill length 8.73, Bill depth 5.86, Bill width 4.60, Broodpatch NO,  
No molt, wing length 57.03, Tail length 56.66, Tarsus 17.10  
mm, middle toe 21.25, hallux w/claw 13.77. Stomach and  
partial skel.

J15 132 Melospiza melodia gouldii imm. 2 days old. 26 May 1989. wt 3.50g  
cloacal protuberance 4.21 x 1.77 mm Tissue saved. stomach saved.  
Nestling of <sup>PK/FW BK</sup><sub>BR</sub> ♂ ad PK/YL ♀ FW/YL 2031-08908 and 2031-08936 respectively.  
The sibs of this individual (2 eggs) were transplanted to Sagehen.  
♂ 1431-14513 YR/RD wh/FW ad ♀ 2031-08954 <sup>PK</sup><sub>YB</sub> wh/FW (on 25 May 1989). skeleton only.

~~J15 133~~ Melospiza  
~~stom/partial skel~~

Sagehen Creek Field Station, 3 mi. NW Hotard Mills, Nevada Co., Calif. 6300 ft.

J15 133 Melospiza melodia phoenicura imm. 2 June 1989. wt 14.0g  
cloacal protuberance 3.78 x 2.27 mm. Tissue saved. stomach saved.  
Banded 2031-08961 ad RT leg yellow. Nestling of J15 137 + 138. sibling  
of J15 134-136. Bill length 4.79, Bill depth 3.71, Bill width 4.01,  
wing length 36.53 (3rd 1<sup>0</sup> 8.45/25.11), Tail length 7.35, Tarsus 19.68  
mm, middle toe 19.55, hallux w/claw 13.09

J15 134 Melospiza melodia phoenicura imm. 2 June 1989. wt 12.50g  
cloaca 5.65 x 3.16 mm. Tissue saved. stomach saved. Banded  
2031-08959, RT leg yellow. Nestling of J15 137 + 138; sibling of  
J15 133, + 135-6. Bill length 4.25 mm, Bill depth 3.76 mm, Bill width 3.09 mm,  
wing length 31.58 mm, Tail length 5.31 mm, Tarsus 16.46 mm, middle toe 20.05 mm,



uth, J  
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Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif 6300ft.

- JIS 134 (cont.) halibut with claws 11.42 mm, molt: 3rd  $1^o$   $\frac{4.69}{21.03}$  mm, Back  $\frac{7.15}{21.12}$  mm + belly  $\frac{3.90}{20.60}$  mm. Skin + partial skeleton.
- JIS 135 Melospiza melodia fisherella imm. 2 June 1989 wt. 14.50gms. cloacal protub.  $4.47 \times 3.65$  mm. Tarsus saved, stomach saved. Left tibia broken. Banded 2031-08958, Rt. leg yellow. Nestling of JIS 137 + 138, sibling of JIS 133-4 + 136. Bill length 4.92 mm, Bill depth 3.78 mm, Bill width 3.61 mm, wing length 36.15 mm, tail length 7.71 mm, Tarsus 18.31 mm Middle toe 20.37 mm, halibut with claws 12.36 mm. Molt: 3rd  $1^o$   $\frac{5.98}{25.07}$  mm, Back  $\frac{8.20}{13.70}$ , belly  $\frac{7.01}{9.70}$ . Skin + partial skeleton.
- JIS 136 Melospiza melodia fisherella imm. ♂? 2 June 1989 wt 18.25gms. cloaca  $4.26 \times 4.26$  mm. Tarsus saved, stomach saved. Testes?: left  $2.81 \times 1.38$  mm, Rt.  $1.93 \times 1.16$  mm. Banded 2031-08960, Rt. leg yellow. Nestling of JIS 137 + 138, sibling of JIS 133-5. Bill length 5.08 mm, Bill depth 3.52 mm, Bill width 3.58 mm, wing length 35.75 mm, tail length 6.52 mm, Tarsus 18.49 mm, Middle toe 20.27 mm, halibut with claws 12.31 mm. Molt: 3rd  $1^o$   $\frac{6.81 \text{ emerged}}{24.53}$  mm, Back  $\frac{6.92}{12.46}$  mm, Belly  $\frac{6.53}{9.09}$  mm. Skin + Partial skele
- JIS 137 Melospiza melodia fisherella ad. sk. ♂. 2 June 1989 wt. 19.00gms. Cloacal protuberance  $6.23 \times 5.51$  mm. Tarsus saved, stomach saved. Testes: left -  $7.36 \times 5.31$ , Rt. -  $7.16 \times 7.22$  mm. Mate of JIS 138, parent of JIS 133-6. Banded 2031-08920  $\frac{4^e}{1^e}$  FW  $\frac{B}{G} R$ . Tarsus saved, stomach saved. Bill length 9.28 mm, Bill depth 5.97 mm, Bill width 5.83 mm, wing length 65.65 mm, tail length 69.20 mm, Tarsus 17.91 mm, Middle toe 19.08 mm, halibut with claws 13.92 mm. No nest, no brood patch, no fat. Skin + Partial skeleton.
- JIS 138 Melospiza melodia fisherella ♀ ad. sk. 2 June 1989 wt. 18.25gms. cloacal protub.  $4.34 \times 2.81$  mm. Tarsus saved, stomach saved - parasite saved with stomach, it was found in the body cavity. Ovaries: left -  $6.29 \times 4.28$  mm. Banded 2031-08953  $\frac{4^e}{1^e}$  FW  $\frac{P}{R}$ . Bill length 8.62 mm, Bill depth 6.04 mm,



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Sophia Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif., 6300 ft.

JIS 138 (cont) Bill width 4.65 mm, wing length 62.79 mm, Tarsus 16.99 mm, Tarsus 19.16 mm, Middle toe 17.95 mm, hallux with claw 14.93 mm. No molt, Broadpatch present, No fat. Skin + Partial skeleton. Parent of JIS 137. Mate of JIS 137.

Russell Tree Reservation, 2 mi NW Lafayette, Contra Costa Co., Calif., 1300 ft.

JIS 139 Melospiza melodia zonotrichia 9 days old. 4 June 1989. wt. 13.02 gms. sex? Cloaca 4.42 x 3.42 mm. Tarsus saved, stomach saved, tibia broken. Banded 2031-08957 ♂ leg leg + rt leg ♂ PK. Parents are

PK/FW BL 315164 ♂/RD ♀ ad 85/FW BL 315160 ♂/BK ♂ (FWS# 2031-08908 ♂ + 2031-08936 ♀)  
(with one other egg)

But this chick was transferred as egg to Sophia Creek Field Station.

3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft on 25 May 1989 (see field notes.) I collected this individual from Foster parents  $\frac{♂}{♀}$  FWS# 2031-08957 ♂ 315176 ad ~~ad~~ ♀ BL ♂/FW (FWS# 2031-14513 ♂ + 2031-08954 ♀)

Bill length 4.66 mm, Bill depth 3.53 mm, Bill width 3.18 mm, wing length 31.10 mm, Tarsus length 4.33, Tarsus 19.26 mm, Middle toe 17.76 mm, hallux with claw 12.19 mm. Molt: 3rd 10<sup>th</sup> primary/20.33 mm, Back 5.77/9.55 mm, Belly 6.89 mm. Skin + Partial skeleton. Light pectoral fat.

JIS 140 Melospiza melodia zonotrichia imm. sex? 9 June 1989. wt. 18.50 gms.

Cloaca 3.00 x 1.55 mm. Tarsus saved, stomach (cut in half) saved - had many seeds unthorned green beetle elytra. 2 Hicko found on rt. side of head were saved with stomach. Banded 1431-14522 (eff leg + rt leg PK/BK. Young of FW/BL ♂/BK ♂ ad FW/BL ♂/BK ♀ (FWS# 2031-08912 ♂ + 2031-08916 ♀.) Reared by

PK/FW BL ♂/RD ♀ ad PK/FW (BL/BK ♂ (FWS# 2031-08908 ♂ + 2031-08936 ♀.) Bill length 8.35 mm, Bill depth 5.56 mm, Bill width 4.75 mm, wing length 57.04 mm, Tarsus length 56.43 mm, Tarsus 17.41 mm, Middle toe 19.26 mm, hallux with claw 13.58 mm, Molting. Molt: lack; belly feathers, Much fat.

Skinned and Partial skeleton. Sib 315157



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Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif.,  
elev. 3000 ft.

- J15141 *Melospiza melodia fisherella* imm. ♀? 11 June 1989. wt. 15.50gms.  
Young of J15145 + 146, sib of J15142 - 144. Tissue saved, stomach  
saved. Ovary: 2.42 x 0.91mm. Cloaca 5.39 x 3.51mm. Bill  
length 5.20mm, Bill depth 4.07mm, Bill width 3.94mm, wing length  
36.8mm, tail length <sup>2.65 emerged</sup>/8.67mm, Tarsus 18.85mm, Middle  
Toe 20.6mm, Hallux with claw 13.01mm. Molt: 3rd 1° <sup>11.53 emerged</sup>  
<sub>27.24 mm</sub>, back <sup>10.86</sup>/13.33mm, <sup>10.36</sup>/13.83 body. Much furcular fat.  
Skin + Partial skeleton.
- J15142 *Melospiza melodia fisherella* imm. ♂? 11 June 1989. wt. 15.00gms.  
Parents are J15145 + 146, sib of J15141 + 143-4. Tissue saved,  
stomach saved. Testes?: left 2.41 x 1.27mm, RT 2.01 x 1.02mm  
cloaca 3.88 x 4.57mm. Bill length 5.65mm, Bill depth 4.27mm,  
Bill width 4.04mm, wing length 38.29mm, tail length <sup>3.00 emerged</sup>/11.26mm,  
Tarsus 18.24mm, Middle Toe 22.02mm, Hallux with claw 12.96mm,  
Molt: 3rd 1° <sup>14.24 emerged</sup><sub>28.16 mm</sub>, Back <sup>9.78</sup>/17.01mm, Belly <sup>11.68</sup><sub>15.85 mm</sub>. Some  
pure fat. Skin + Partial skeleton.
- J15143 *Melospiza melodia fisherella* imm. ♂? 11 June 1989. wt. 13.50gms.  
Parents are J15145 + 146, sib of J15141 - 2 + 144. Tissue saved,  
stomach saved. Testes?: left 0.90 x 0.80mm, RT 1.03 x 0.91mm.  
cloaca 4.91 x 3.52mm. Bill length 5.49mm, Bill depth 4.05mm,  
Bill width 4.08mm, wing length 37.89mm, tail length <sup>3.07 emerged</sup><sub>11.89</sub>, Tarsus  
18.74mm, Middle Toe 22.47mm, Hallux with claw 13.42mm, Molt:  
3rd 1° <sup>13.32 emerged</sup><sub>27.68 mm</sub>, Back <sup>10.57</sup>/14.91mm, Belly <sup>9.67</sup>/13.50mm. Much furcular  
fat. Skin + Partial skeleton.



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Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif., 6300 ft.

J15144 Melospiza melodia fusca. imm ♂? 11 June 1989. wt. 13.0 gms.  
Juvie saved, stomach saved. Testes?: left - 1.83 x 0.92 mm &  
Rt. - 2.10 x 1.65 mm. Skin + Partial skeleton. Parents are J15145+146,  
sib of J15141-143.

J15145 Melospiza melodia fusca ♀ ad. sk. 11 June 1989. wt. 17.0 gms.  
Mate of J15146, parents of J15141-144. Juvie saved, stomach  
saved. Ovary: left - 7.27 x 4.31 mm, largest follicle 1.91 mm. Cloaca  
2.70 x 3.31 mm. Bill length 8.29 mm, Bill depth 6.08 mm,  
Bill width 5.22 mm, Wing length 59.65 mm, Tail length 60.18 mm,  
Tarsus 18.95 mm, Middle toe 21.86 mm, Hallux with claw  
15.67 mm, Molt - Right outer tail feather broken, No fat,  
Broodpatch present. Skin + Partial skeleton.

J15146 Melospiza melodia fusca ♂ ad. sk. 11 June 1989. wt. 19.0 gms.  
Mate of J15145, parent of J15141-144. Banded Fw/wh BL/BK (FWS#  
2031-08730). Juvie saved, stomach saved. Testes: Rt 7.42 x  
5.93 mm & left 10.13 x 4.47 mm. Cloaca 7.70 x 8.32 mm. Bill  
length 8.94 mm, Bill depth 6.04 mm, Bill width 5.11 mm, Wing length 62.57 mm,  
Tail length 67.29 mm, Tarsus 18.28 mm, Middle toe 21.27 mm,  
No molt, No fat, No broodpatch. Skin + Partial skeleton.

Marin Russell Ranch Reservation, 2 mi. NW Lafayette, Contra Costa Co., Calif., 1300 ft.

J15147 Melospiza melodia gouldii fledgling sk. imm. 15 June 1989. wt. 17.5 gms.  
Juvie saved, stomach saved, tapeworm-like parasite found in kidney  
saved with stomach. Bill length 8.24 mm, Bill depth 5.37 mm, Bill width  
4.28 mm, Wing length 53.94 mm, Tail length 58.82 mm, Tarsus 17.32 mm  
Middle toe 18.63 mm, Hallux with claw 14.00 mm, Molt - only 10 tail  
feathers, belly feathers only just coming in. Much preenless + sternal fat.  
Skin + Partial skeleton.



July 1989

## Catalog

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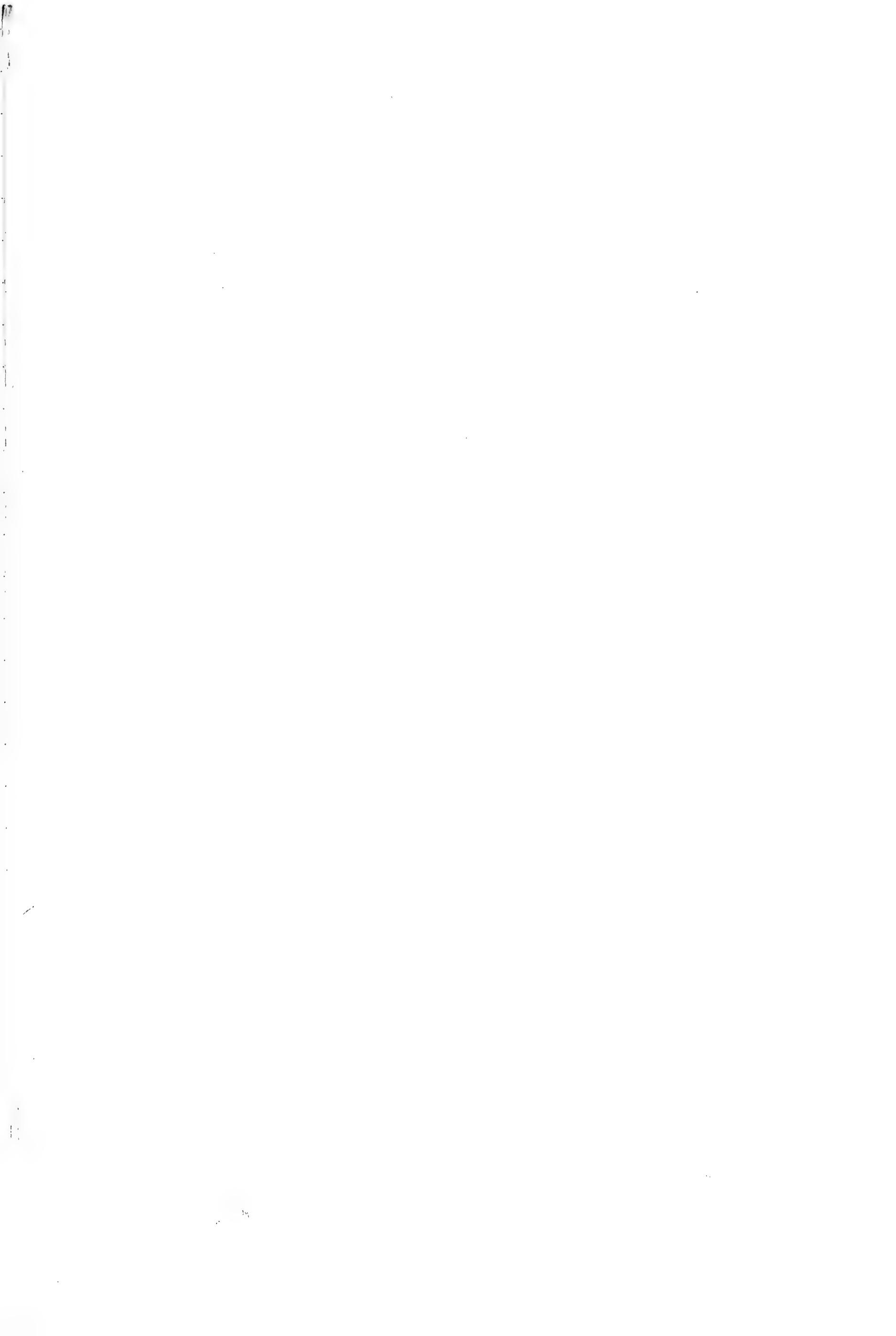
Sagehen Creek Field Station, 3 mi. NW Hotout Mills, Nevada Co., Calif. 6300 ft.

JIS 148 Melospiza melodia fuscorufa fledgling ♂? 22 June 1989. wt 20.00gms.  
Parents are Fw/<sup>JIS 168</sup> BR <sup>RD</sup>/<sub>OK</sub> B ad FW/<sup>JIS 171</sup> BR <sup>BL</sup>/<sub>YR</sub> ♀ (Fws# 1431-14512 ♂ +  
1431-14516 ♀) reared by BL/FW <sup>GR</sup>/<sub>OK</sub> ♀ <sup>JIS 172</sup> ad BY/FW <sup>PK</sup>/<sub>BL</sub> ♂  
(Fws# 2031-08921 ♂ + 2031-08949 ♀.) Sibling of JIS 149.  
Banded 2031-08955 leftly BY/BR RT by. Tissue saved, stomach  
saved, Tongue cut. Testes? left 1.71 x 0.90 mm + RT - 1.44 x 0.87 mm.  
Bill length 7.25 mm, Bill depth 5.22 mm, Bill width 4.63 mm, Wing length 65.44 mm.  
Tail length <sup>49.58 merged</sup><sub>58.98 mm</sub>, Tarsus 17.87 mm, Middle toe 20.12 mm,  
Hallux with claw 13.54 mm, Cloaca 3.73 x 2.90 mm. Molt:  
Tail not fully emerged, 1<sup>o</sup>'s not fully emerged. Very Fat, skin +  
partial skeleton.

JIS 149 Melospiza melodia fuscorufa ♂? Fledgling 22 June 1989. wt. not taken  
Sibling of JIS 148, Parents are Fws# <sup>JIS 168</sup> 1431-14512 + 1431-14516  
<sup>JIS 172</sup> reared by 2031-08921 + 2031-08949. Banded 2031-08956  
Tissue saved, stomach saved, only RT Tarsus saved.  
Gonads? left - 1.20 x 0.52 mm; RT - 1.22 x 0.94 mm.  
Bill length - shot . . . wing length 66.01 mm, Tail length 59.85 mm  
Tarsus 17.66 mm, Middle toe 21.27 mm, hallux with claw 13.51 mm  
cloaca 5.21 x 3.51 mm. Molt - Tail not fully emerged. <sup>skin +</sup>  
<sup>partial</sup> skeleton.

Russell Ave Reservation, 2 mi NW Lafayette Contra Costa Co., Calif. 6300 ft.

JIS 150 Melospiza melodia gouldii ♂ ad. sk. 14 July 1989. wt. 19.00gms.  
Reared JIS 155 but parent of JIS 140. Banded <sup>+157</sup> FW/<sup>PK</sup> BL/<sub>GR</sub> 2031-08917  
Tissue saved, stomach saved, tongue saved. Gonads: left - 2.87 x 1.55 mm +  
RT - 2.38 x 1.00 <sup>(?)</sup>. Head & left by shot. Bill length 10.11 mm, Bill depth 5.96 mm  
Bill width 5.26 mm, wing length 58.15 mm, Tail length 57.55 mm, Tarsus 18.08 mm  
Middle toe 20.17 mm, Hallux with claw 14.85 mm, cloaca 3.75 x 6.43 mm.  
Molt: Primaries 1-4 cleaving, 4th incomplete pin, tail molt except for RT #2, fully molted.  
Slight FAT. SKIN + partial skeleton.



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Russell Tree Reservation, 2 mi NW Lafayette, Contra Costa Co., California, 1300ft

JIS 151

Melospiza melodia gouldii. Hys SK. wind. sex ♂ wt. 19.00 gms.

Fledgling of ♂ 2031-08902 <sup>GR</sup> <sup>OR</sup> + ♀ 2031-08943 <sup>OR/FW</sup> <sup>OR</sup>  
BK <sup>OR</sup> reared by ♂ 2031-08910 <sup>OR</sup> <sup>BL</sup> FW <sup>BL</sup> RO.

Banded 2031-08951 OR/FW <sup>BL</sup> X. 16 July 1989. Tissue saved, stomach  
saved; gonads: left - 2.13 x 1.53 mm + RT - 2.00 x 1.43 mm. Bill length 8.23 mm,  
Bill depth 5.66 mm, Bill width 4.97 mm, wing length 55.30 mm, Tail length 56.95 mm,  
Tarsus 19.03 mm, middle toe 18.92 mm, hallux with claw 13.80 mm, cloaca 3.37 x  
3.37 mm. Molt - upper + underwing coverts, tail coverts, belly and back. Mod. Fat.  
Skin + partial skel.

Sucker Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., California, 6300ft

JIS 152

Melospiza melodia fisherella. sex? Fledgling. 28 July 1989. wt. 16.50 gms.

Sibby of JIS 153; Banded 2031-08990 left ad red Lt. Parents are ♂  
BK / <sup>RD</sup> FW 2031-08932 <sup>JIS175</sup> + ♀ 2031-08952 OR/YL <sup>JIS169</sup> RD / FW.

Tissue saved, + stomach saved. Gonads not found. Rt Tibia broken.

Tissue was in body for > 4 hours after death. Bill length 7.45 mm, Bill  
depth 5.27 mm, Bill width 4.34 mm, wing length 62.08 mm, Tail length \*  
55.36 mm, Tarsus 20.01 mm, Middle toe 19.75 mm, Hallux with claw 14.92 mm,  
cloaca 3.75 x 2.54 mm. \* Molt - upper tail coverts, tail, underwing coverts.  
No fat. Skin + partial skel.

JIS 153

Melospiza melodia fisherella, sk. unoss. Fledgling ♂. 29 July 1989. wt 22.00 gms.

Sibby of JIS 152, Parents are 2031-08932 + 2031-08952. Banded 2031-08989

right + red left. Tissue + stomach saved. Gonads: left - 1.30 x 0.65 mm +  
RT - 1.20 x 0.92 mm. Bill length 7.75 mm, Bill depth 5.52 mm, Bill width 4.85 mm,  
wing length 66.79 mm, Tail length \* 55.07 mm, Tarsus 18.10 mm, middle toe 20.48 mm,  
hallux with claw 14.94 mm, cloaca 4.85 x 2.20 mm. Molt \* underwing coverts +  
tail. Moderate Fuscous Fat. Left leg shot. Skin + partial skel.

JIS 154

Melospiza melodia fisherella. ♂ fledgling. 29 July 1989. wt. 21.00 gms.

Unbanded. Tissue + stomach saved. Only rt tibia saved. ~~Right~~



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Sagehen Creek Field Station, 3 mi. NW Hobart Mills, Nevada Co., California 6300 ft

JIS 154 (cont.) gonads: RT- $1.12 \times 0.82$  mm + LF- $0.72 \times 0.48$  mm. Left leg shot.

Bill length 7.75 mm, Bill depth 6.08 mm, Bill width 5.33 mm, wing length 66.61 mm, Tail length \* 66.89 mm, Tarsus 19.75 mm, Middle Toe 19.59 mm, hallux with claw 14.79 mm, Cloaca  $3.53 \times 3.00$  mm. Molt - tail not fully emerged.

Slight Fat. Skin + Partial skel.

Russell Tree Reservation, 2 mi NW Lafayette Contra Costa Co., California 1300 ft

JIS 155 Melospiza melodia gouldii. imm. ♀. Large sk. wind. 3 August 1989. wt 18.0 gm

Banded 1431-14519 left +  $\frac{BL}{PK}$  right, nearly of  $\frac{PK}{FW}$   $\frac{BL}{BK}$  ♂ 2031-08908 + ♀  $\frac{PK}{FW}$   $\frac{BK}{RD}$  2031-08936, but reared by 2031-08916 + 2031-08917 (JIS 158).

Gonads left away  $3.27 \times 1.63$  mm. Crop full of chick scratch. Bill length 8.69 mm, Bill depth 5.62 mm, Bill width 5.18 mm, wing length 54.87 mm, Tail length 54.87 \* mm, Tarsus 18.27 mm, Middle Toe 18.77 mm, hallux with claw 15.65 mm, Cloaca  $3.64 \times 1.46$  mm. Molt - 8th primary, tail + coverts, head, back + belly. skin + partial skel. Tissue + stomach saved.

JIS 156 Melospiza melodia gouldii imm. (Yearling) ♂. 10 August 1989. wt. 21.50 gm,

Banded 1431-14517 left +  $\frac{BL}{PK}$  right. Nearly of ♀ 2031-08933  $\frac{BL}{FW}$   $\frac{BL}{BK}$  + ♂ 2031-08904  $\frac{BL}{FW}$   $\frac{BL}{RD}$   $\frac{BL}{BK}$ . Tissue saved + stomach saved. Gonads:

LF- $0.78 \times 0.78$  mm + RT- $0.92 \times 0.75$  mm. Left Tibia Broken. Bill length 7.88 mm, Bill depth 5.76 mm, Bill width 4.92 mm, wing length 55.75 mm, Tail length 64.08 mm, Tarsus 17.50 mm, Middle Toe 19.80 mm, Hallux with claw 13.58 mm, Cloaca  $3.59 \times 5.59$  mm, Molt - Under + upper wing coverts, primaries 7-9 are  $\frac{1}{2}$  emerged, Tail coverts, Right side of tail 3rd feather from outside  $\frac{1}{2}$  emerged, 1st outer feather still slightly in pin, left side of tail fully emerged. Much Fat. Skin + Partial skel.

JIS 157 Melospiza melodia gouldii ♀ imm. large skull windows. 12 August 1989 wt 19.00 gm.

Banded 1431-14521 left +  $\frac{PK}{BK}$  right (reared by JIS 150 ♂). Parent is JIS 190 ♂ + sib of JIS 140. Tissue + stomach saved. Left ovary  $0.92 \times 0.81$  mm. Bill length 8.76 mm, Bill depth 5.66 mm, Bill width 4.85 mm.



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Russell Lake Reservation, 2 mi NW Lafayette, Contra Costa Co., California, 1300 ft

JIS157 (cont) Wing length 60.44 mm, Tail length 59.77 mm, Tarsus 18.68 mm, Middle toe 18.60 mm, Hallux with claw 14.07 mm, Cloaca 2.79 x 3.21 mm, Molt - left outer tail feather just. little out of shaft left. Much fat. Skin + partial skele.

JIS158 Melospiza melodia gouldii ♀ imm. lge sk. wind. 12 Aug 1989 wt. 20.00 gms. Unbanded. Gonads ad uteri short. Tissue + Stomach saved. Bill length 8.40 mm, depth 5.67 mm, Bill width 4.83 mm, Wing length 56.26 mm, Tail length 58.59 mm, Tarsus 18.16 mm, Middle toe 19.74 mm, Hallux with claw 13.70 mm, Molt - underway + tail coverts + back. Some fat. SK skeleton Only.

JIS159 Melospiza melodia gouldii ♀ imm lge sk. wind. 15 August 1989. wt 17.50 gms. Unbanded. Gonads - 3.59 x 1.72 mm off ovary Tissue (in body 2 hrs after death) + stomach saved. Bill length 8.71 mm, Bill depth 5.70 mm, Bill width 4.89 mm, Wing length 53.85 mm, Tail length \* 55.31 mm, Tarsus 17.28 mm, Middle toe 19.34 mm, Hallux with claw 13.45 mm, Cloaca 4.14 x 3.20 mm. Molt - 7<sup>th</sup> + 8<sup>th</sup> primary are 7/8's emerged, tail <sup>coverts</sup> ~~long~~, median coverts, tail 7/8's out. Much fat. SKel. only.

JIS160 Melospiza melodia gouldii ♂ ad sk. 17 August 1989. wt 20.50 gms. Banded 2031-08908 PKFW <sup>BL</sup> BK. Parent of JIS155 <sup>+ JIS159. Mate ♀</sup> <sub>JIS164</sub> reared JIS157 + 140. Tissue + stomach saved (in body 2 hrs after death) Gonads (gt) - 1.93 x 1.56 mm + rt 1.64 x 1.43 mm. Bill length 8.82 mm, Bill depth 5.95 mm, Bill width 4.77 mm, Wing length \* 55.75 mm, Tail length 59.73 mm, Tarsus 19.68 mm, Middle toe 17.98 mm, Hallux with claw 13.53 mm, Cloaca 2.87 x 5.61 mm. Molt - wing + coverts, outer tail feathers, back + belly. Some fat. SKin + Partial skele.



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Burnell Tree Reservation, 2 mi NW Lafayette, Costa Rica Co., Costa Rica 1300ft

- J15161 Melopygia melodia gouldii ♀? imm. Hdg sk. whd. 17 August 1989.  
wt. 17.00gms. Unbanded. Tissue & stomach saved.  
Gonads - left ovary 3.54 x 1.57mm. Bill length 7.97mm, Bill  
depth 5.72mm, Bill width 4.74mm, wing length 56.11mm, Tail  
length 59.64mm, Tarsus 17.73mm, Middle toe 18.40mm, Hallux  
with claw 14.22mm, Cloaca 3.72 x 3.7mm. Molt Primaries  
7-9 in pin, Belly + Back. Some fat. Skel. Only.
- J15162 Melopygia melodia gouldii ♀ adsk. 17 August 1989. wt. 18.00gms.  
Bill shot. Bill depth 8.92mm, wing length 57.53mm, Tail  
length 60.06mm, Tarsus 18.13mm, Middle toe 17.68mm,  
Hallux with claw 14.70mm, Cloaca 3.08 x 3.48mm. Molt -  
Primaries 7-9 + secondaries, outer tail, belly + back. Much fat.  
Skel. Only. Left ovary 4.64 x 2.39mm
- J15163 Melopygia melodia gouldii ♀ adsk. 18 August 1989. wt 19.50gms.  
Banded 2031-08933 <sup>♂</sup>/FW <sup>♀</sup>/YL. Parent of J15156. Mate of J15166  
Both Tarsi broken. Tissue & stomach saved. Left ovary 3.83 x 1.81mm.  
Bill length 9.13mm, Bill depth 5.78mm, Bill width 4.88mm, wing  
length 55.57, Tail length 60.46mm, Tarsus 17.56 (rt leg), middle  
toe 19.41 (rt leg), hallux with claw 13.56mm (rt leg), Cloaca  
4.72 x 3.70mm. Molt - Primaries 7-9 emerging from pin, tail counts,  
back, under ad upper wing coverts + head. Much fat. Skin + Partial skel.
- J15164 Melopygia melodia gouldii ♀ adsk. 21 August 1989. wt 20.00gms.  
Banded 2031-08936 <sup>PK</sup>/FW <sup>BK</sup>/RD. Parent of J15139 + J15155, Reared  
J15157 + 140. Mate of J15160. Tissue & stomach saved. Left leg  
shot. Bill length 9.42mm, Bill depth 5.60mm, Bill width 4.96mm, wing length 54.90mm,  
Tail length 59.53mm, Tarsus 18.00mm, middle toe 19.76mm, hallux with  
claw 14.15, cloaca 3.50 x 4.23mm, left ovary 4.97 x 2.7mm, Molt -



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Russell Tree Res. 2 mi. NW Lafayette, Contra Costa Co., California 1300 ft.

J1S164 (cont) Primaries #1+6-8, 1st secondary, all tail + coverts, belly, back + head. Some fat. Skin + Partial skel.

J1S165 Melospiza melodia gouldii ♂ ad SK. 21 August 1989. wt 20.00gms  
Banded 2031-08902 <sup>6L</sup>/FW <sup>OR</sup>/BK, Parent of J1S151. Testes:  
L - 2.09 x 1.15mm + R - 1.97 x 1.34mm. Tissue + stomach saved  
Bill length 9.21mm, bill depth 5.88mm, Bill width 5.17mm, wing length \*  
60.45mm, tail length \* 63.98mm, Tarsus 17.66mm, Middle toe 15.41mm,  
hallux with claw 15.02mm, cloaca 2.78 x 2.71mm, Molt: Primaries  
6-9 + secondaries, outer left tail, belly, back + head. Much fat.  
Skin + Partial skel.

J1S166 Melospiza melodia gouldii ♂ ad SK. 23 August 1989. wt 22.00gms.  
Banded 2031-08904 <sup>8L</sup>/FW <sup>RA</sup>/BK, Parent of J1S156, mate of J1S163.  
Testes: L - 1.55 x 1.63mm + R - 1.84 x 1.52mm. Left leg shot. Tissue +  
stomach saved. Bill length 8.66mm, Bill depth 5.64mm, Bill width 4.88mm,  
wing length \* 59.80mm, tail length 64.74mm, Tarsus 19.62mm, Middle toe  
18.01mm, Hallux with claw 13.69 (left), cloaca 3.00 x 3.70mm.  
Molt: back, belly, Primaries 9-7 + Secondaries 1-3. Some fat  
skin + partial skel.

Sequoia Creek Field Station, 3 mi. NW Hobart Wells, Nevada Co. Calif. 6300 ft.

J1S167 Melospiza melodia fisherella ♂ ad SK. 28 August 1989. wt 25.00gms.  
Banded 1431-14511 <sup>FW</sup>/<sub>AK</sub> <sup>TL</sup>/<sub>BK</sub>. Tissue + stomach saved. Testes:  
L - 1.50 x 0.96mm + R - 2.09 x 1.43mm. Left leg shot. Bill length 9.27mm  
Bill depth 6.19mm, Bill width 5.35mm, wing length \* 63.26mm, tail length \* 70.84mm,  
Tarsus 19.54mm, Middle Toe 18.24mm, hallux with claw 14.72mm, cloaca  
3.28 x 2.78mm, Molt: Primaries 6-8, 1-2 secondaries, only 8 tail  
feathers, head, belly + back. Some fat. Skin + partial skel.



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Sagehen Creek Field Station, 3m. NW Hotart Mills, Nevada Co., Calif. 6380ft

- J15168 Melospiza melodia fisherella ♀ ad. sk. 28 August 1989. wt 23.00gms  
Banded 1431-14512 FW/<sup>RD</sup>6R/YL. Mate of J15171, Parent of J15  
149 + 148. Tissue + stomach saved. Testes: L - 2.88 x 2.08mm &  
R - 1.26 x 1.09mm. Bill length 8.64mm, Bill depth 5.94mm, Bill  
width 5.01mm, wing length \* 63.75mm, tail length \* 69.51mm, Tarsus  
17.41mm, M. ddd, toe 19.28mm, hallux with claw 13.31mm,  
cloaca 3.08 x 3.69mm. Molting: Primaries 5-7, secondaries  
1-2, tail, back, belly + head. Much fat. Skin + Partial skele.
- J15169 Melospiza melodia fisherella ♀ ad. sk. 29 August 1989. wt 21.50gms  
Banded 2031-03952 O<sup>R</sup>/YL <sup>175</sup> RD/FW, Mate of J15171, Parent J15152 +  
153. Tissue + stomach saved. ~~Testes~~ left ovary 3.58 x 2.32mm, Bill  
length 9.35mm, Bill depth 6.33mm, Bill width 5.18mm, Wing length \* 63.38mm  
tail length \* 68.68mm, Tarsus 17.59mm, M. ddd, toe 21.50mm, hallux  
with claw 15.25mm, cloaca 3.78 x 3.34mm, Molting: Primaries  
7-9, secondaries 1-2, tail, back, belly + head. Some fat. Skin + Partial skele.
- J15170 Melospiza melodia fisherella ♂ ad. sk. 29 August 1989. wt 21.00gms  
Banded 2031-03922 BX/FW YL. Tissue + stomach saved. Testes  
left - 1.53 x 1.39mm & R - 1.58 x 1.35mm, Bill length 8.84mm, Bill  
depth 6.27mm, Bill width 5.32mm, Wing length \* 65.27mm, Tail length  
70.49mm, Tarsus 18.12mm, Middle toe 20.84mm, hallux with claw 14.57mm  
cloaca 2.89 x 3.41mm, Molting: Primaries 7-9, secondaries 5-7,  
belly, back + head. No tail molt. Slight fat. Skin + Partial skele.
- J15171 Melospiza melodia fisherella ♀ ad. sk. 29 August 1989. wt 20.00gms.  
Banded 1431-14516 FW/<sup>BL</sup>6R/YL, Mate of J15168, parent of J15148 + 149.  
Tissue + stomach saved, left ovary 4.16 x 2.41mm, Bill length 8.54mm,  
Bill depth 6.42mm, Bill width 5.26mm, Wing length \* 62.49mm, Tail length \* 58.67mm,  
Tarsus 18.55mm, Middle toe 19.65mm, hallux with claw 14.32mm, cloaca 3.69 x 3.23mm,  
Molting: Primaries 4-5, secondary #1, tail, belly, back, + head. Slight fat. Skin + Partial skele.



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Sagehen Creek Field Station, 3 mi. NW Hobart Mills, Nevada Co., California, 6300 ft.

- JIS 172 Melospiza melodia fisherella. ♀ ad. sk. 9 September 1989. wt 22.50gms.  
Banded 2031-08949 <sup>B/FW</sup> <sup>61/0R</sup>, reared JIS 148+149.  
Lt fibra broken. left ovary 3.79 x 3.86 mm, largest foll. 0.72 mm.  
Tissue + stomach saved. Bill length 8.77 mm, Bill depth 5.97 mm, Bill width 5.27 mm, Wing length \* 68.31 mm, Tail length 69.39 mm, Tarsus 18.55 mm, Middle toe 19.36 mm, hallux with claw 13.92 mm,  
cloaca 2.55 x 4.09 mm, Molting: Primaries 8-9, secondaries 1-6,  
back, + belly. Very much fat. Skin + partial skull.
- JIS 173 Melospiza melodia fisherella ♂ ad. sk. 9 September 1989. wt 23.50gms  
Banded 1431-14510 <sup>FW/0R</sup> <sup>wh/0K</sup>. Tissue + stomach saved. Testes:  
L - 1.74 x 1.12 mm + R - 1.31 x 1.29 mm. Head shot. Bill length  
9.01 mm, Bill depth 6.05 mm, Bill width 4.82 mm, Wing length \* 67.36 mm,  
Tail length 75.03 mm, Tarsus 19.70 mm, Middle toe 18.43 mm, hallux with  
claw 15.03 mm, cloaca 3.85 x 3.52 mm, mostly primaries 6-9,  
secondaries 1-6, head, belly + back. Some fat. Skin + partial skull.
- JIS 174 Melospiza melodia fisherella ♂ ad. sk. 9 September 1989. wt 24.00gms.  
Tissue + stomach in body > 4 hours before preservation. Gonads not  
found. Bill length banded 2031-08926 <sup>GR/FW</sup> <sup>02/4L</sup>. Bill  
length 8.99 mm, Bill depth 5.97 mm, Bill width 5.07 mm, Wing length \* 66.31 mm,  
Tail length 70.64 mm, Tarsus 21.20 mm, Middle toe 19.86 mm,  
hallux with claw 15.66 mm, cloaca 3.29 x 4.01 mm. Molting: Primaries  
7-9, secondaries 1-7, some fat. Internal parasite saved with  
stomach. Skin + partial skull.
- JIS 175 Melospiza melodia fisherella ♂ ad. sk. 10 September 1989. wt 23.50gms.  
Banded 2031-08932 (BK/wh <sup>R0</sup>/FW) Mate of JIS 169, parent of  
JIS 152 + 153. Tissue + stomach saved. Testes: L - 1.38 x 1.04 mm  
R - 1.02 x 1.66 mm. Bill length 9.85 mm, Bill depth 6.28 mm, Bill width 5.27 mm

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Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., California 6300 ft.

J15175 (cont) wing length \* 67.30 mm, tail length \* 74.56, tarsus 19.97 mm, middle toe 19.41 mm, hallux with claw 15.39 mm, cloaca 4.24 x 3.41 mm. Molting: primaries 8-6, secondaries 1-2, head, back, belly, tail. Slight fat. Skin + partial skull.

J15176 Melospiza melodia fisherella ♀ ad. sk. 10 September 1989. wt 24.50 gms.

Banded 1431-14513 (<sup>Y</sup>/<sub>E</sub> <sup>W</sup>/<sub>Fw</sub>) Mate of J15177, reared J15139.

Tarsus + stomach saved. Only st fibia saved. Teeth: L - 1.53 x 1.06 mm, R - 1.33 x 1.67 mm. Right hallux claw missing, + internal parasite saved with stomach. Bill length 9.17 mm, Bill depth 6.14 mm, Bill width 5.40 mm, Wing length \* 70.48 mm, Tail length \* 72.92 mm (postal. McR. sheath), Tarsus 17.73 mm, middle toe 19.94 mm, hallux with claw 15.50 mm, cloaca 3.27 x 3.02 mm.

Molting: primaries 7-9, secondaries 2-6, tail, head, belly + back. Some fat. Skin + Partial

J15177 Melospiza melodia fisherella ♀ ad. sk. 11 September 1989. wt 19.00 gms

Banded 2031-08954 (<sup>BL</sup>/<sub>BK</sub> <sup>W</sup>/<sub>Fw</sub>) Mate of J15176, reared J15139.

Tarsus + stomach saved. Left ovary 3.22 x 3.09 mm. Bill length 9.07 mm, Bill depth 5.86 mm, Bill width 5.12 mm, wing length \* 62.44 mm, Tail length 66.60 mm, Tarsus 18.04 mm, middle toe 19.07 mm, hallux with claw 14.01 mm, cloaca 3.26 x 2.68 mm. Molting: Primaries \* 9, secondaries 4-6, back + belly. Much fat.

J15178 Melospiza melodia fisherella ♀ ad. sk. 11 September 1989. wt 20.50 gms.

Banded 2031-08963 (<sup>W</sup>/<sub>W</sub> <sup>OK</sup>/<sub>Fw</sub>). Tarsus + stomach saved. Left ovary

3.18 x 4.09 mm. Tibia broken. Bill length 8.95 mm, Bill depth 5.66 mm, Bill width 5.30 mm, wing length \* 61.50 mm, Tail length 66.67 mm, Tarsus 20.17 mm, middle toe 19.46 mm, hallux with claw 14.59 mm, cloaca 3.04 x 3.74 mm.

Molting: primaries 8-9, secondaries 3-6, back + belly. Some fat. Skin + Partial

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Salton Sea National Wildlife Refuge, 3 mi. WSW Calipatria, 500 meters N of corner of Bruchard & Foulds Road, Imperial Co., Calif. - 68 feet elev.

- JIS 179 Melospiza melodia ♀ gonads shot ad. sk. 4 November 1989. wt 17.5 gms  
Tissue + stomach saved. No broodpatch. Some fat. Skeleton only.
- JIS 180 Melospiza melodia saltonis ♂ large sk. wind. 4 November 1989.  
wt. 19.0 gms. Tissue + stomach saved. Some fat. Belly molt.  
Skin + Partial skeleton.
- JIS 181 Melospiza melodia saltonis. ♀ ad. sk. 4 November 1989. wt. 17.5 gms.  
Left ovary 3.41 x 2.81 mm. Tissue + stomach saved. Some fat. No  
broodpatch. Skin + Partial skeleton.
- JIS 182 Melospiza melodia saltonis ♂ ad. sk. 4 November 1989. wt 18.0 gms.  
Tissue + stomach saved. Some fat. Testes: L-1.57 x 1.23 mm, R-1.31 x  
1.20 mm. Skin + Partial skeleton.
- JIS 183 Melospiza melodia saltonis. ♀ lg. sk. wind. 4 November 1989. wt 18.0 gms.  
Left ovary 1.37 x 1.13 mm. No broodpatch. Tissue + stomach saved.  
Collected by Carla Cecio. Tissue + stomach saved. Skin and  
partial skeleton.
- JIS 184 Melospiza melodia saltonis. ♀? sk. wind. 4 November 1989. wt. 15.0 gms.  
Collected by Carla Cecio. Tissue + stomach saved. Some fat.  
Skin + Partial skeleton. Bach Molt. No broodpatch.
- JIS 185 Melospiza melodia saltonis. ♀ ad. sk. 4 November 1989. wt. 17.0 gms  
Collected by Carla Cecio. Left ovary 3.77 x 2.44 mm. Tissue + stomach  
saved. Much Fat. No broodpatch. Skin + Partial skeleton.



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~~Sayre Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif., 6300 ft.~~

JIS186 Melospiza melodia fisheriella. ? <sup>24 days old</sup> imm. 23 June 1990, wt 18.0g.

Banded 77-96038 (BL). Tissue + stomach saved. Right tibia broken  
much, set Bill length 7.46, Bill depth 5.52, Bill width 4.38,  
wing length 60.80, tail length 51.6, Tarsus 16.88, Middle toe 18.60,  
hallux with claw, 13.99, cloaca 3.61 x 4.44, Molt by: Tail,  
Primary 10, 3rd 10 47.43, Rundness 10.97, skin + partial skel.

JIS187 Melospiza melodia fisheriella ♂ <sup>24 days old</sup> imm. 23 June 1990, wt 17.0gms.

Banded 77-96040 (BL). Tissue + stomach saved. Both Tibias saved,  
much set Bill length 7.50, Bill depth 5.6, Bill width 4.98,  
wing length 57.25, tail length 51.91, Tarsus 18.11, Middle toe 17.83,  
Hallux with claw 13.30, cloaca shot, ~~Tarsos~~ Molt by Primary  
shot, Rundness 11.06, 3rd 10 47.55, Tail a skin + Partial skel.

JIS188 Melospiza melodia goldae ~~sk. wnd.~~

~~Big Creek Reserve, 5 mi N Lucia, Monterey Co. Calif., 4000 ft.~~

JIS189 Melospiza melodia goldae ♂ ~~sk. wnd.~~ 7 July 1990. wt 17.5gms.

Tissue saved + stomach. Banded 77-96042. This fledgling is

part of Transfer #3, eggs laid at Big Creek but transferred to

Sayre Creek Field station 27 May 1990, hatch day ~4 June 1990.

Bill length 7.55, Bill depth 5.30, Bill width 4.53, wing  
length 59.48, tail length 55.58, Tarsus 16.98, Middle toe 18.53,

Hallux 13.55, Molt: <sup>43.96</sup> 3rd 10, Tail <sup>45.74</sup> 52.95, cloaca <sup>3.05 x</sup> 2.59

skin + partial skel. Rundness 9.79, Tarses: L 0.82 x 0.85, R 1.00 x 0.71

JIS190 Melospiza melodia goldae ♂ ~~hyc sk. wnd.~~ 7 July 1990. wt 17.0gms

~~skin + partial skel.~~

Left tibia not saved Tissue saved + stomach, Banded 77-96043. This fledgling is part of

transplant #3, eggs laid at Big Creek but transferred to Sayre Creek Field  
Station 27 May 1990, hatch day ~4 June 1990. Bill length 7.48, depth 5.10,

width 4.29, wing length 58.33, tail length 57.65, Tarsus 17.55, Middle toe 17.66,  
Hallux 12.84, Molt 4th 48.61/48.61, 47.65/52.97 tail cloaca 4.33 x 2.47 Rundness 11.83

1.00 x 0.71  
heart + gut  
not saved



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Big Creek Reserve, San Lucia, Monterey Co., California 400 ft elev.

JIS 190 Melospiza melodia gouldii, ♀ <sup>2.87 x 0.86 mm</sup> sk. wind. 10 July 1990 wt. 17.5 gms  
Tissue & stomach saved. cloaca 2.16 x 1.48, fat some, Bill length  
8.12 mm, Bill depth 5.19, Bill width 4.30, wing length 55.18,  
tail length 56.41, Tarsus 16.50, Middle toe 18.30, hallux with claw 18.24  
claw 13.19, Molt: <sup>47.21</sup> 3rd 1<sup>o</sup>, round 9.92 mm, tail ~~55.55~~ <sup>55.55</sup> / 55.55, belly/pins  
skin + partial skele saved.

JIS 191 Melospiza melodia gouldii ♂ ad. sk. 1.97 x 1.47 L + R 1.92 x 1.66  
Tissue & stomach saved. Cloaca 3.2 x 4.29, fat set,  
Bill length 8.24 mm, Bill depth 5.69, Bill width 4.69, wing length  
59.77, tail length 57.19, Tarsus 17.45, Middle toe  
19.05, Hallux with claw 13.85, Molt: primaries 2+3 and tail all but right 3 outer  
specimen only. roundness: 11.53

JIS 192 Melospiza melodia gouldii, ♂? sk. wind. 11 July 1990 ~~22.1~~ <sup>22.0</sup> gms  
Tissue & stomach saved. cloaca , fat ~~some~~ ,  
Bill length 7.80 mm, Bill depth 5.59, Bill width 4.49, wing length  
61.42, tail length 63.44, Tarsus 18.49, Middle toe 17.74,  
Hallux with claw 15.26, molt 3rd 1<sup>o</sup> <sup>48.54</sup> / ~~48.54~~ <sup>48.54</sup>, tail <sup>61.20</sup> / ~~61.20~~  
Roundness: 9.30 , accompanied by adults which is calling  
probably ~4 weeks old. Skin + Partial skele. p. is back feathers some in

JIS 193 Melospiza melodia gouldii, ♂ juv sk. wind. 11 July 1990 ? <sup>10.7</sup> gms  
Tissue & stomach saved. Cloaca , fat some , Bill  
length 7.79, Bill depth 5.31, Bill width 4.25, wing length  
58.41, tail length 60.95, Tarsus 19.92, Middle toe 18.04,  
Hallux with claw 13.71, molt: 45.84 1<sup>o</sup> , tail <sup>57.33</sup> / ~~57.33~~  
Roundness 7.50 , accompanied by adult, ~4 weeks old.  
Skin + Partial skele. Tick caught on left side of throat



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Big Creek Reserve, 5 mi N Lucia, Monterey Co., California, 40 ft elev.  
24.5

JIS 194 Melospiza melodia gouldii. ♂ sk. wind. 11 July 1990. 21.0 gms  
Tissue + stomach saved. Cloaca , fat some . Bill  
length 8.05, Bill depth 5.82, Bill width 4.65, Wing length  
58.61, Tarsus 20.37, Middle toe 16.55,  
Hallux with claw 14.57, Molt:  $\frac{46.83}{47.16}$  1<sup>o</sup>,  $\frac{60.15}{62.75}$  tail  
Roundness 0.78 , accompanied by an adult, ~4 weeks old.  
Skin + partial skele.

JIS 195 Melospiza melodia gouldii. ♂ sk. wind. 11 July 1990. 21.0 gms  
Tissue + stomach saved. Cloaca , fat null . Bill  
length 7.67, Bill depth 5.76, Bill width 4.25, Wing length  
60.45, Tarsus 19.60, Middle toe 17.88,  
Hallux with claw 14.34, Molt:  $\frac{47.16}{47.16}$   $\frac{62.75}{62.75}$  tail  
Roundness 7.22 , accompanied by an adult, ~4 weeks  
old, skin + partial skele. Right tibia broken

JIS 196 Melospiza melodia gouldii. ♂? sk. wind. 14 July 1990. 16.5 gms  
Tissue and stomach saved, Cloaca 4.26 x 3.21, fat much . Bill  
length 7.12, Bill depth 5.11, Bill width 4.21, Wing  
length 56.71, Tarsus 18.45, Middle  
toe 19.60, Hallux with claw 13.50, Molt:  $\frac{44.11}{41.95}$   $\frac{39.49}{44.31}$ ,  
Roundness: 9.04

Still being fed by adult. 77-96045 banded R<sup>0</sup>/L<sup>0</sup> 26 days old  
Part of transp #4 Right tibia broken, skin + partial skele.

JIS 197 Melospiza melodia gouldii. ♀? sk. wind 17 July 1990. 17.0 gms  
Tissue + stomach saved, Cloaca , fat much , Bill length 7.33 mm,  
Bill depth 4.89, Bill width 4.97, Wing length 57.62, Tarsus 18.77  
Middle toe 18.53, Hallux with claw 14.07, Molt:  $\frac{40.03}{45.18}$  3<sup>rd</sup> d<sup>1</sup>,  $\frac{36.65}{42.85}$  tail  
Tail 49.06, Roundness: 9.04 , laid at bi; neck, hatched, reared + molt at  
Sagehen. Sib of JIS 196. Banded 77-96048. Skin + Partial skele. 26 days old



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Big Creek Reserve, 3 mi N Lucia, Monterey Co., California 400 ft

JIS 198

Melospiza melodia gouldii. ♂. SK.wnd. 17 July 1990. 18.0. gms  
Tissue + stomach saved. Cloaca 2.37 + 3.38, fat much, Bill  
length 6.87, Bill depth 5.46, Bill width 5.00, Wing length 55.78<sup>left wing</sup>,  
Tail length 51.0, Tarsus 19.32, Middle toe 16.<sup>98</sup>, Hallux with claw 14.58,  
Molt:  $\frac{43.02}{46.83} 1^{\circ}$ ,  $\frac{35.87}{45.23}$  Roundness 10.72, Laid at Big Creek hatch  
reared ad shot at Sather, partly transp #6 (see notes) sib of JIS 199.  
Banded 77-96047. Right wing + leg shot. Skirt Partial Skel. 25 days old

JIS 199

Melospiza melodia gouldii. ♂. SK.wnd. 17 July 1990. 19.5 gms  
Tissue + stomach saved. Cloaca 2.54 x 2.98, fat some, Bill length 7.11 mm,  
Bill depth 4.70, Bill width 4.48, Wing length 57.33, Tail length 50.15,  
Tarsus 20.35, Middle toe 17.63, Hallux with claw 13.79, Molt  $\frac{44.64}{44.64} 1^{\circ}$   
 $\frac{35.57}{42.79}$  tail, Roundness 9.84. Laid at Big Creek, hatched,  
reared + shot at Sather. Sib of JIS 198. Transp #6<sup>(P. 190)</sup>. Banded 77-96047  
Right leg shot + left shot - no fibs + saved. Shot in back gonads not found  
no kidney found 25 days old

JIS 200

Melospiza melodia gouldii ♂ sk.wnd. 24 July 1990. wt. 19.0 gms.  
Tissue + stomach saved. Cloaca 2.62 x 2.62 mm. Much fat.  
Testes: L- 1.48 x 0.90 mm, R- 0.89 x 0.97 mm. Bill length 7.77 mm, Bill  
depth 5.47, Bill width 4.87, Wing length 61.74, Tail length 64.06,  
Tarsus 20.63, Middle toe 19.17, Hallux 13.67, Roundness 11.25,  
Molt 49.62 / 49.62 3rd P, 63.57 / 63.57 tail. Fledgling.

Sather Creek Field Station, 3 mi N (Hobart Mills), Nevada Co., California 6300 ft elev.

JIS 201

Melospiza melodia fisheriella ♂ sk.wnd. 26 July 1990. wt 20.0 gms

Banded 77-96039. Testes: L- 0.94 x 0.74, R- 1.05 x 0.95 mm.

Bill length 8.98, Bill depth 6.07, Bill width 5.02, Wing length 64.86, Tail length  
66.16, Tarsus 19.21, Middle toe 17.46, Hallux with claw 14.41, Roundness 12.15,  
Molt: 52.14 / 52.14 3rd P, 62.72 / 62.72 tail. 57 days old.



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Big Creek Reserve, 5 mi N Lucia, Monterey Co., California 400 ft elev.

JIS 202 Melospiza melodia gouldii. ♂ sk. wind. 26 July 1990. wt. 19.0gms.

Banded 77-96057. Testes: L-1.62x0.95mm, R-1.77x1.44mm.

Some fat. Both legs shot. Laid at Big Creek; hatched reared + collected at Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., California (6300ft elev). Transfer #7. 29 days old.

Bill length - shot, Bill depth 5.2mm, Bill width 4.43, Wing length 58.49, Tail length 56.87, Tarsus 20.51, Middle toe 15.24, Hallux with claw 12.93, Roundness 8.88, Molt: 47.88/47.88 3rd 10, 40.30/50.26 tail skin + Partial skeleton. Tissue + stomach saved.

JIS 203 Melospiza melodia gouldii ♀ sk. wind. 27 July 1990. wt. 17.5gms.

Banded 77-96059. Much fat. Tissue + stomach saved.

Laid at Big Creek; hatched, reared and collected at Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., California, 6300ft elev.

Transfer #9. 32 days old. ~~sk.~~ Bill length 7.25mm, Bill depth 5.18, Bill width 4.77, Wing length 56.85, Tail length 57.19, Tarsus 18.00, Middle toe, 17.47, Hallux with claw 13.48, Roundness 10.52, Molt: 44.63/44.63 3rd 10, 43.85/51.33 tail.

JIS 204 Melospiza melodia fuscicollis

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., California 6300ft

JIS 204 Melospiza melodia fuscicollis. ♂ sk. wind. 27 July 1990. wt. 19.5gms.

Tissue + stomach saved. Some fat. Testes: L-1.52x1.18, R-1.18x1.01mm.

Being fed by parents. Skeleton Only. Bill length 5.96, Bill depth 4.57, Bill width 4.57, Wing length 49.43, Tail length 22.71, Tarsus 19.27, Middle toe 19.20, Hallux with claw 12.53, Roundness 9.61. Molt 27.62/13.13 3rd 10, 8.21/20.87 tail.



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~~Big Creek Reserve, 5 mi N Lucia, Monterey Co., California, 400 ft. elev.~~

- J15205 Melospiza melodia gouldii ♀ sk. wind. 28 July 1990. wt. 18.5 gms.  
left ovary 1.32 x 1.32 mm. Banded 77-96063. Much fat. Laid at  
Big Creek; hatched, reared + collected at Sogach Creek Field station,  
3 mi NW Hobart Mills, Nevada Co., Calif., 6300 ft. elev. Skin + Partial skeleton.  
Tissue + stomach saved. Part of Transf #10. 25 days old. Bill  
length 7.10 mm, Bill depth 4.74, Bill width 4.22, wing length 55-42,  
tail length 47.36, tarsus 19.69, Middle toe 17.46, Hallux  
with claw 14.35, Roundness 9.01, Molt 40.70/40.70 3rd 10;  
35.71/41.73 tail.

~~Sogach Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., California, 6300 ft. elev.~~

- J15206 Melospiza lincolni ♂ sk. wind. 28 July 1990. wt. 16.0 gms  
Skeleton only. Testes: L-1.42 x 0.70 mm, R-1.06 x 0.66 mm.

~~Big Creek Reserve, 5 mi N Lucia, Monterey Co., California, 400 ft. elev.~~

- J15207 Melospiza melodia gouldii ♂ sk. wind. 29 July 1990. wt. 21.5 gms  
Banded 77-96065. Testes L-1.26 x 0.80 mm, R-1.13 x 0.88 mm.  
Much fat. Laid at Big Creek; hatched, reared + collected at Sogach  
Creek Field station, 3 mi NW Hobart Mills, Nevada Co., California, 6300 ft. elev.  
Part of Transf #11. 27 days old. Tissue + stomach saved. Skin +  
Partial skeleton. Bill length 7.00 mm, Bill depth 5.07, Bill width 4.24,  
wing length 60.31, tail length 57.72, tarsus 20.35, Middle toe 18.68,  
Hallux with claw 13.89, Roundness 12.38, Molt: 47.59/47.59 3rd 10;  
39.75/51.75 tail.

- ~~J15208~~ Melospiza melodia juv.

~~Sogach Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif., 6300 ft. elev.~~

- J15208 Melospiza melodia fisheriella ♀ ad sk 14 August 1990. wt. 19.05 gms.  
Banded 77-96105. left Ovary 4.75 x 2.78; 0.56 mm largest follicle  
Some fat. Parent of 77-96106 + 77-96107. Reared OR OR + 77-96108.  
↳ J15211



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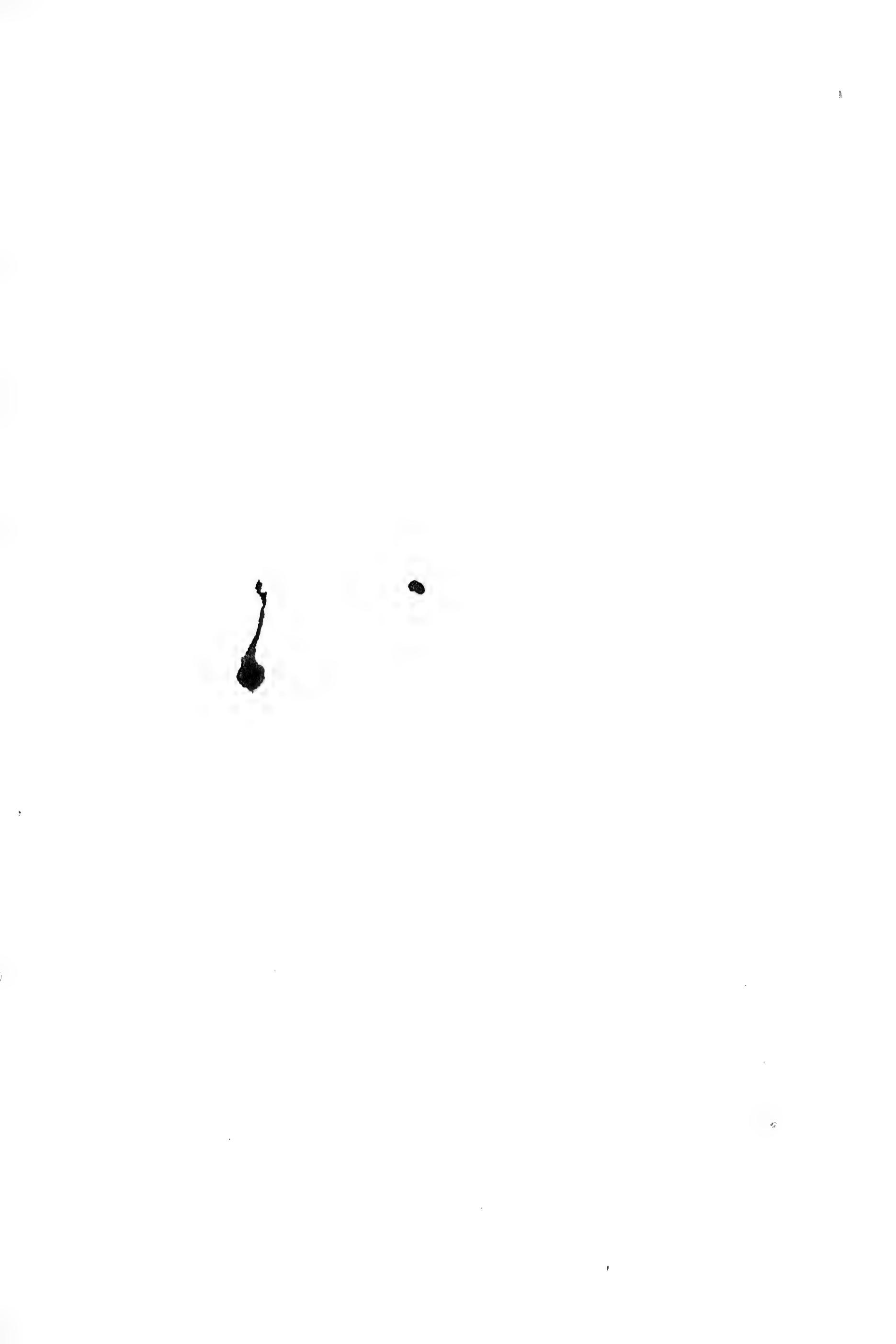
Sagehen Creek Field Station, 3 mi NW Hobart Hills, Nevada Co., California 6300 ft elev.

JIS 208 (cont) skin + partial skeleton. Tarsus + stomach saved. Bill length 8.97  
Bill depth 6.23, Bill width 4.85, Wing length 60.82, Tail length 63.79,  
Tarsus 19.33, Middle Toe 19.87, Hallux with claw 13.92  
Rounding 9.21, Molt: tail (3rd from outer tibia shot. Mate <sup>♀</sup> JIS 213)

JIS 209 Melospiza melodia fuscula ♂ imm sk wind. 14 August 1990. wt. 22.0 gms  
Banded 77-96108, ♂ juv, ♀ 77-96033 <sup>♂</sup> <sub>JIS 213</sub> <sup>♀</sup> juv + unmarked ♀; reared  
by JIS 209 + unmarked ♂. skin + partial skele. Tarsus + stomach saved.  
Bill length 6.53, Bill depth 5.29, Bill width 4.80, Wing length 64.63,  
Tail length 46.16, Tarsus <sup>20.46</sup> ~~24.57~~, Middle Toe <sup>19.52</sup> ~~17.35~~, Hallux with  
claw 14.46, Rounding 10.89, Molt: <sup>43.08</sup> <sub>50.74</sub> 3rd 10, <sup>20.09</sup> <sub>41.16</sub> tail  
Testes L: 1.87 x 1.16 mm R: 1.59 x 1.0 mm, Much fat  
21 days old. 5.6 g JIS 212.

JIS 210 Melospiza melodia fuscula ? ♂ imm sk. wind. 15 August 1990. wt. 19.50 gms  
Skeleton Only. Tarsus + stomach saved. Bill length 7.70, Bill  
depth 6.04, Bill width 5.23, wing length 63.67, Tail length 67.45,  
Tarsus 19.03, Middle Toe 18.36, Hallux with claw 14.04  
Rounding 11.26, Molt: <sup>51.52</sup> <sub>51.52</sub> ♂, <sup>65.16</sup> <sub>65.16</sub> tail.  
Gonads: shot, soft w/ fat

JIS 211 Melospiza melodia fuscula. ♂ imm sk. wind. 15 August 1990. wt. 24.0 gms  
Banded 77-96107, offspring of JIS 208, reared by 77-96033 <sup>♂</sup> <sub>juv</sub> +  
unmarked ♀. skin + partial skeleton. Tarsus + stomach. Bill length 7.35  
Bill depth 5.63, Bill width 4.68, Wing length 67.05, Tail  
length ~~57.52~~, Tarsus 19.73, Middle Toe 19.01, Hallux with claw 19.94  
Rounding 12.02, Molt: <sup>47.09</sup> <sub>51.69</sub> ♂, tail <sup>42.34</sup> <sub>51.02</sub>  
24 days old. Gonads: Testes L: 1.55 x 1.11 mm; R 1.32 x 1.23 mm



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Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif., 6300 ft. elev.

JIS 212

Melospiza melodia fisherella ♀ imm. SK. 16 August 1990. wt. 19.0gms.  
Banded OR OR. Sib of JIS 209. Offspring of 77-96033 ♂ FW 1/2 QD; reared  
by JIS 208 + JIS 213. Skin + Partial skeleton. Tissue + Stomach  
saved. 22 days old. Bill length 6.72, Bill depth 5.46, Bill  
width 4.90, Wing length 61.26, Tail length 46.67, Tarsus 19.1.  
Middle toe <sup>18.72</sup><sub>41.37</sub>, Hallux with claw 13.42, Roundness 9.02  
Molt <sup>41.37</sup><sub>49.08</sub> <sup>10</sup><sub>33.96</sub>, Tail 41.86,  
Gonads cavity 3.34x1.95

fat much

right tibia ~~short~~ broken

JIS 213

Melospiza melodia fisherella ♂ ad. sk. 16 August 1990. wt. 20.5gms.  
Mate of JIS 208. <sup>Rearred</sup> ~~Father~~ of JIS 209 + 212. Parent of JIS 211.  
Skin + Partial skeleton. Tissue + stomach saved. Bill length 8.76,  
Bill depth 5.88, Bill width 4.84, Wing length 65.61, Tail length 70.58,  
Tarsus 20.55, Middle toe 17.76, Hallux with claw 14.00, Roundness 10.51  
Molt tail counts, Primis Gonads: Testis L - 2.56x1.66  
R - 2.63x1.57 fat & gut sing 1 tibia saved

Found a parasite in the kidney saved with stomach.

JIS 214

Melospiza melodia fisherella ♂ imm SK. 22 August 1990. wt 18.5gms  
Young of JIS 215, sib of JIS 186 + 187 + JIS 201. Banded 77-96111 BL  
20 days old. Skin + Partial spcl. Tissue + stomach saved. Bill  
length 6.94mm, Bill depth 5.56, Bill width 4.20, Wing length 62.95,  
Tail length 44.69, Tarsus 21.41, Middle toe 17.60, Hallux with claw 14.66  
Roundness 12.23, Molt <sup>42.28</sup><sub>48.75</sub> <sup>28.55</sup><sub>10</sub>, <sup>Tarsus: L 1.93 x D 0.96</sup>  
<sup>much fat</sup> 38.17 tail. Total: L 6.45 x D 1.26 x H 1.48

JIS 215

Melospiza melodia fisherella. ♀ ad sk. 22 August 1990. wt 19.5gms  
Banded 77-96109 BL Parent of JIS 214, 186, 187, 201. Skin + Partial skel. Tissue + stomach saved.  
Bill length 9.26, Bill depth 5.87, Bill width 5.27, Wing length 57.69, Tail length 63.45, Tarsus 19.12,  
Middle toe 17.87, Hallux with claw 14.20, Roundness 6.80, Molt head left wing 4.57 + 2.19. Molt foot 0.63  
Gonads, one tibia short some fat



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## Pasha Island, Mono Lake, Mono Co., CA.

JIS 216

*Microtus californicus* ♂ collected by M. Morrison #900427-2.

prep JIS. 27 April 1990 17°-55-22-15. Skin + skull saved  
not scrotal. cft Testis 11mm, Right T 13mm; seminal vesicle left 23mm.  
r. wt 20mm

1991

## Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif 6300ft

JIS 217

*Melospiza melodia fuscicollis*. ♀ ad sk. 11 July 1991. wt. 25.0g

JIS 218

Banded 77-96150 4L/FW BL/DR. skin + partial skeleton

July 1991  
77-96150  
2.67  
2.75

Tissue + fat saved. See 11 July 1991 journal for measurements much fat

JIS 218

*Melospiza melodia fuscicollis* ♂ imm sk. 11 July 1991 wt. 23.0g

Banded 77-96128 + PK. skin + partial skele. Tissue saved. 23 days old

Bill length 7.26, Bill depth 5.65, Bill width 4.75, wing length 65.09,

Tail length 50.84, Tarsus 19.76, middle toe 18.27

hallux + claw 13.95, Molt primary #3 51.33 tail 48.49

Roundness <sup>7.63</sup> 1. Molt is 77-96113/PK PK/PK. Sibg 219-221. Tarsus 1.53 x 0.93 =

JIS 219

*Melospiza melodia fuscicollis*. imm sk. 11 July 1991 wt 23.50g

Banded 77-96127 + PK. skin + partial skele. Tissue saved. 22 days old

Bill length 7.08, Bill depth 5.00, Bill width 4.44, wing length 61.38,

Tail length 46.65, Tarsus 20.10, middle toe 18.61

hallux + claw 14.94, molt primary #3 49.22 tail 43.42

Roundness <sup>7.64</sup> 1. Molt is 77-96118.

JIS 220

*Melospiza melodia fuscicollis*. imm sk. 11 July 1991. wt. 20.0g

Banded 77-96126 + PK. skin + partial skele. Tissue saved. 23 days old

Bill length 7.04, Bill depth 4.99, Bill width 4.16, wing length 60.94,

Tail length 49.44, Tarsus 19.42, middle toe 17.30, hallux 13.11

Molt 3rd primary <sup>50.21</sup> 50.21, tail <sup>38.15</sup> 46.12 Round 6.54

sib 221 + 218-219. Molt is 77-96118. Gonads not found



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Sayian Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif 6300 ft

- J15221 Melospiza melodia fisherella imm sk. 11 July 1991 wt. 21.5g  
Banded 77-96125 + OR. skin + partial skull. Tissue saved. 23 days old.  
Bill length 7.34, Bill depth 5.33, Bill width 4.56, wing length 62.50,  
tail length 51.17, Tarsus 19.94, middle toe 19.02,  
hallux w/claw 14.08 Molt 3rd primary <sup>49.05</sup> tail <sup>39.90</sup> <sub>48.54</sub>  
roundness <sup>7.85</sup> Sib of J15218-220. Mother 77-96118.  
Left tarsus shot, coracals not found
- J15222 Melospiza melodia fisherella. F in sk. 12 July 1991 wt. 24.0g  
Banded 77-96133 + OR. skin + partial skull. Tissue  
saved. 25 days old. Bill length 7.36, Bill depth 5.60,  
Bill width 4.82, wing length 64.96, tail length 57.91,  
Tarsus 20.03, mid toe 18.69, hallux w/claw 14.17  
roundness <sup>8.59</sup> Sib of J15223-224. Mother is  
77-96136. Molt 3rd primary <sup>50.22</sup> tail <sup>41.85</sup> <sub>51.88</sub>
- J15223 Melospiza melodia fisherella ♀ in sk. 12 July 1991  
wt. 21.0g. Banded 77-96135 + OR. 25 days old. Bill length 7.30  
Bill depth 5.32, Bill width 4.77, wing length 61.66, Tail length <sup>52.72</sup>,  
Tarsus 18.81, mid toe 17.94, hallux w/claw 13.07  
roundness 9.09, molt 3rd primary <sup>46.60</sup> tail <sup>38.92</sup> <sub>48.95</sub>  
Sib of J15222, + 224. Mother is 77-96136.
- J15224 Melospiza melodia fisherella imm sk. 12 July 1991. wt. 22.0g  
Banded 77-96134 + OR. 26 days old. Bill length 7.21, Bill depth 5.26  
Bill width 4.52, wing length 61.50, tail length 59.20, Tarsus 19.33  
Middle toe 19.13, hallux w/claw 12.69, roundness 7.04  
Molt 3rd primary <sup>50.23</sup> tail <sup>46.30</sup> <sub>44.07</sub> Sib of 222-223. Mother  
is 77-96136. Coracals shot



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Sugden Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft

JIS 225 Melospiza melodia fisheriella ♀? imm SK. 12 July 1991. wt. 22.0g  
Banded right green. Skin + partial skel. Tissue saved. 22 days old.  
Bill length 6.46, Bill depth 5.14, Bill width 4.69, wing length 60.61,  
tail length 48.79, tarsus 13.91, mid toe 18.27, hallux 13.62  
Molt 3rd <sup>47.99</sup> 1° 47.95, tail <sup>33.39</sup> 43.80. Roundness 7.38  
Mother is 77-96117, father is JIS 226.

JIS 226 Melospiza melodia fisheriella ♂ ad SK. 12 July 1991. wt. 23.50g  
Banded 2031-08924 <sup>PK</sup> / FW OR. Skin + partial skel. Tissue saved.  
Bill length 9.25, Bill depth 5.74, Bill width 4.45, wing length 66.56,  
tail length 69.93, tarsus 19.23, mid toe 18.89, hallux 13.58  
Molt 1° 3rd <sup>47.99</sup> none, Round <sup>6.91</sup> 7.55 father of JIS 225. Mother 77-96117.

JIS 227 Melospiza melodia fisheriella imm SK. 24 July 1991. wt. 18g. Banded 77-96153 <sup>ad</sup> / RD. Skin + partial skeleton.  
Tissue saved. 14 days old. This bird was incubated, hatched, brooded and collected at Big Creek Reserve, 3 mi N Lucia, Monterey Co., Calif. 400ft. Bill length 7.55, Bill depth 4.50, Bill width 4.25, wing length 52.24, tail length 26.30, tarsus 20.95, mid toe 18.19, hallux 13.10, molt: 3rd 1° <sup>36.27</sup> 41.10, tail <sup>12.84</sup> 23.35, Roundness 9.47  
Much fat. Gonads not found. Sib of JIS 228. Mother 77-96148 (JIS 225).

JIS 228 Melospiza melodia fisheriella ♂ imm SK 28 July 1991 wt. 20.5g.  
Banded 77-96155 <sup>RD</sup> / RD. Skin + partial skel. Tissue saved. 18 days old.  
This bird was incubated, hatched, brooded and collected at Big Creek Reserve, 3 mi N Lucia, Monterey Co., Calif. 400ft. Bill length 6.48, Bill depth 4.77, Bill width 3.72, wing length 59.72, tail length 35.10, Tarsus 19.06, mid toe 18.29, hallux 13.94, molt 3rd 1° <sup>39.32</sup> 46.22, tail <sup>17.55</sup> 28.57  
Round 8.01 sib of JIS 227. Testes left 1.45 x 0.82, right not found  
much fat. Mother 77-96148 (JIS 225)



South, J  
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Big Creek Reserve, 5 mi N Lucia, Monterey Co., Calif 400 ft

J15229 *Melospiza melodia cooperi*. ♀ ad sk. 23 July 1991. wt. 17.5g  
Skin + partial skel. Tissue saved. Mated to J15227-228. Reared  
transplant clutch J15227-228. Bill length 8.20, Bill depth 5.37  
Bill width 4.47, wing length 57.23, Tail length 56.59, Tarsus 17.73  
Mid toe 17.82, hallux 13.10, rect tail molt  
roundness 10.75      3.70 x 2.70 left wing

J15230 *Melospiza melodia cooperi* imm sk. 23 July 1991 wt. 5.5g  
Alcoholic. Tissue saved. Offspring of ♂<sup>W/B</sup>/<sub>B/C</sub> × ♀<sub>C/L</sub> ♂ on new  
research facility. sib of J15231. ~7 days old. Died of starvation.  
♂ is not feeding. Bill length 3.25, Bill depth 2.71, Bill width 2.38  
Wing length 16.79, Tail length —, Tarsus 0, Mid toe 29.28,  
hallux 10.06, molt 3rd 1°  $\frac{0}{9.17}$ , tail ×. Roundness 1.70

J15231 *Melospiza melodia cooperi* imm sk. 23 July 1991 wt. 5.0g  
Alcoholic. Tissue saved. Offspring of ♂<sup>W/B</sup>/<sub>B/C</sub> × ♀<sub>C/L</sub> ♂ on new research facility.  
sib of J15230. ~7 days old. Died of starvation. Bill length 3.43,  
Bill depth 3.00, Bill width 2.42, wing length 18.26, Tail length 2.43  
Tarsus 15.27, mid toe 14.41, hallux 10.37, molt 3rd 1°  $\frac{2.16}{11.64}$ ,  
tail  $\frac{0}{1.3}$ . Roundness 5.42 Right leg red.

J15232 *Melospiza melodia cooperi* ♀ imm sk. 29 July 1991 wt. 17.0g.  
Skin + partial skeleton. Tissue saved. Bill length 7.96, Bill depth 5.15,  
Bill width 4.49, wing length 56.87, tail length 57.36, Tarsus 18.96  
Mid toe 17.70, hallux 14.35      3rd 1°  $\frac{46.80}{46.80}$ , tail  $\frac{54.66}{54.66}$ .  
Roundness 6.55. Gonads short. Some fat

J15233 *Melospiza melodia cooperi*. imm sk. 29 July 1991. wt. 16.0g. skin + partial skel.  
Tissue saved. Bill length 8.05, Bill depth 4.98, Bill width 4.60, wing length 54.37,  
Tail length 60.18, Tarsus 17.82, Mid toe 17.52, Hallux 14.37  
Molt 3rd 1°  $\frac{44.46}{44.46}$ , tail  $\frac{56.72}{56.72}$ , Round 8.36  
Gonads not found. much fat



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Big Creek Reserve 5 mi. N Lucia Monterey Co., Calif. 400 ft

J15234 Melospiza melodia cooperi ♂ imm sk. wt. 18.0g. 29 July 1991.

Skin + partial skeleton. Tissue saved. Bill length 7.99, Bill depth 5.08,  
 Bill width 4.60, wing length 58.30, tail length 61.42, Tarsus 18.68,  
 mid toe 17.64, hallux 13.43, molt 3rd 1°  $\frac{45.80}{45.80}$ , tail  $\frac{57.48}{57.48}$   
 roundness .773 left tarsus shot neck fat. gonads not found 57.48

J15235 Melospiza melodia cooperi imm sk. wt 18.0g. 29 July 1991. 57.48

skin + partial skel. tissue saved. Bill length 7.96, Bill depth 4.96,  
 Bill width 4.78, wing length 56.50, Tail length 57.33, Tarsus 18.55,  
 Mid toe 17.31, hallux 14.22, molt: 3rd 1°  $\frac{43.07}{43.07}$ , tail  $\frac{54.69}{54.69}$ ,  
 roundness 6.83 left leg shot gonads not found

J15236 Melospiza melodia cooperi ♂ imm sk. 29 July 1991 wt. 21.0g

skin + partial skel. tissue saved. Bill length 7.58, Bill depth 5.24,  
 Bill width 4.39, wing length 60.65, Tail length ~~65.21~~<sup>64.46</sup>, Tarsus 19.59  
 mid toe 18.58, hallux 14.81, molt: 3rd 1°  $\frac{49.28}{49.28}$ , tail ~~65.64.23~~<sup>64.23</sup>,  
 roundness 6.14 left testes 1.14 x 0.73

J15237 Melospiza melodia cooperi imm sk. 29 July 1991 wt. 19.0g

skin + partial skel. tissue saved. Bill length 7.91, Bill depth 5.20,  
 Bill width 4.44, wing length 59.72, tail length 60.35, Tarsus 19.09,  
 mid toe 17.58, hallux 14.05, molt 3rd 1°  $\frac{47.45}{47.45}$  tail  $\frac{60.34}{60.34}$ ,  
 roundness 7.04 lots of fat. gonads not found.

J15238 Melospiza melodia cooperi imm sk. 29 July 1991 wt. 20.0g

skin + partial skeleton. tissue saved. Bill length 7.67, Bill depth 5.25,  
 Bill width 4.42, wing length 59.67, Tail length 62.46, Tarsus 19.29,  
 mid toe 17.92, hallux 13.95, molt 3rd 1°  $\frac{48.78}{48.78}$ , tail  $\frac{59.76}{59.76}$ ,  
 round 7.49 gonads not found

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Big Creek Reserve, 5 mi. N Lucia, Monterey Co., Calif. 400 ft.

JIS 239 Melospiza melodia cooperi. ♀ ad SK. 7 August 1991 wt. 16.50g.  
Skinned + partial skeleton. Tissue saved. Bill length 8.30, Bill depth 5.24,  
<sup>4.14<sup>1.37</sup> wing 10.57, tail length 55.67, tail length 56.23, tarsus 18.38,  
M. toe 16.42, hallux 13.64, molt no , Randres 9.39</sup>

JIS 240 Melospiza melodia cooperi imm Sk 6 August 1991. wt 17.05  
Skinned + partial skeleton. Tissue saved. Bill length 7.67, Bill depth 5.31,  
Bill width 4.47, wing length 53.78, tail length 55.20, Tarsus 17.52,  
M. toe 16.36, hallux 13.63, molt 3rd 1<sup>0</sup>  $\frac{43.74}{43.74}$  tail  $\frac{52.05}{52.05}$   
Randres 6.86

Sagehen Creek Field Station, 3 mi. NW Hobart Mills, Nevada Co., Calif. 6300 ft

JIS 241 Melospiza melodia fisherella. ♂ imm SK. 7 August 1991. wt. 18.0g.  
16 days old. Banded 77-96162 <sup>Pd</sup>/<sub>rd</sub>. This bird was incubated, hatched,  
reared, and collected at Big Creek Reserve, 5 mi. N Lucia, Monterey Co., Calif. 400 ft.  
Offspring of JIS 217. Tissue saved. Bill length 5.92, Bill depth 4.48,  
Bill width 4.36, wing length 55.60, tail length 25.43, Tarsus 20.92,  
M. toe 17.35, Hallux 12.63, molt 3rd 1<sup>0</sup>  $\frac{37.44}{41.78}$  tail  $\frac{16.47}{24.38}$   
Randres 5.71 reared by JIS 239. Right wing shot. Lots of fat  
Liver was yellow. mother JIS 217

JIS 242 Melospiza melodia fisherella ♂ ad SK. 9 August 1991. wt 20.5g. Banded  
77-96119 <sup>BL/FW</sup> <sub>PK</sub> mate of JIS 243. Father of JIS 244-245. Tissue saved.  
Also father of 77-96122-124. Bill length 8.83, Bill depth 6.12, Bill width 4.84,  
wing length 62.90, tail length 60.94, Tarsus 19.23, M. toe 18.15, Hallux 13.37,  
molt no , Rand 6.16 . Left leg 6.10 ft right 6.34 ft L 3.49 x 1.69, 2.61 x 1.19-R  
get  
skull

JIS 243 Melospiza melodia fisherella ♀ ad SK. 9 August 1991. wt 20.0g. mate of JIS 242  
mother of JIS 244-245 + 77-96122-124. Tissue saved. Bill length 8.66, Bill depth 5.98,  
Bill width 5.17, wing length 61.72, tail length 59.15, Tarsus 20.38, M. toe 18.02, Hallux 13.72  
molt no , Rand 7.00 3.44 x 2.34 left wing legs shot  
5 ft ft VIAL 242A is tissue not in Alc shot



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Saxheny Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft

- J15244 *Melospiza melodia fisherella* ♂ imsk. 23 days old. 9 August 1991. wt 20.5g  
Father is J15242, mother J15243, sib J15245. Banded 77-96157 BL. Tissue saved.  
Bill length 6.82, Bill depth 4.35, Bill width 1.79, wing length 62.09, tail length 44.27  
Tarsus 10.45, mid toe 19.90, hallux 13.14, molt 3rd 10<sup>47.29</sup>/<sub>51.39</sub>, tail 30.68/<sub>38.95</sub>  
Rand. 5.96. Some fat L - 1.0% x 0.47, 0.90 x 0.62 - R
- J15245 *Melospiza melodia fisherella* ♂? imsk. 23 days old. 9 August 1991 wt. 19.5g.  
Parents J15242-243, sib J15244. Tissue saved. Banded 77-96159 BL. Bill length 7.25,  
Bill depth 5.52, Bill width 5.08, wing length 60.78, Tail length 50.69, Tarsus 19.21,  
mid toe 19.20, hallux 13.35, molt: 3rd 10<sup>49.03</sup>/<sub>49.03</sub>, tail 36.33/<sub>43.34</sub>, Rand. 7.21
- J15246 *Melospiza melodia fisherella* ♂, imsk. unbanded. 9 August 1991 wt. 20.0g  
Bill length 8.25, Bill depth 6.18, Bill width 4.78, wing length 66.29, tail length 67.84,  
Tarsus 20.25, Mid toe 17.93, Hallux 14.22, molt: 3rd 10<sup>51.60</sup>/<sub>51.60</sub>, tail 66.47/<sub>66.47</sub>  
Rand 7.52 Tissue saved left tarsus shot L 1.27 x 0.69, R 1.14 x 0.95
- J15247 *Melospiza melodia fisherella* ♀ ad sk. 10 August 1991. wt. 19.0g.  
Banded 77-96104 <sup>GR</sup> <sub>FW</sub> <sup>GR</sup> <sub>TL</sub>. Reared J15249+250, mate J15248. Mother of  
77-96167 - 170 (J15251). Tissue saved. Bill length 8.17, Bill depth —,  
Bill width 4.22, wing length 62.27, Tail length 58.70, Tarsus 18.35, Mid toe 18.54,  
Hallux 14.21, molt NO, Rand. 7.30.  
Lower mandible shot. Right wing 4.77 + 2.27 mm, left by shot.
- J15248 *Melospiza melodia fisherella* ♀ ad sk. 10 August 1991. wt. 20.0g.  
Banded 77-96178 <sup>FW</sup> <sub>GR</sub> <sup>BL</sup> <sub>TL</sub>. Reared J15249+250, mate J15247. Father of 77-96167-  
170 (J15251). Tissue saved. Bill length 8.17, Bill depth 5.93, Bill width 4.72,  
wing length 64.16, Tail length 63.47, Tarsus 19.18, Mid toe 18.58, Hallux 14.53,  
molt NO, Rand 6.30. Much fat L - 3.0% x 0.92  
R 2.65 x 3.05



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Sagehen Creek Field Station, 3 mi NW of East Mill, Nevada Co., Calif., 6300 ft.

- JIS249 Melospiza melodia fisherella ♂ imm. 10 August 1991. wt 18.0 gms.  
17 days old. Mother JIS247, Father JIS248. Reared by JIS247-248.  
5.6 x 50. Nother JIS252. Tissue saved. Bill length 5.71, Bill depth --,  
Bill width 3.39, wing length 56.88, tail length 31.67, Tarsos 20.49, mid toe 19.07,  
Hallux 13.65, molt: 3rd  $\downarrow$   $\frac{41.09}{46.63}$ , tail  $\frac{15.07}{25.29}$ ; Round 5.26  
Bill shot. Banded 77-96174 BL. Tarsus L - 1.29 + 0.79, L 1.16 x 0.82
- JIS250 Melospiza melodia fisherella ♂ imm. 10 August 1991. wt 17.5 gms.  
Banded 77-96173 BL. 17 days old. Reared JIS247-248, 5.6 x 50, mother JIS252.  
Tissue saved. Bill length 5.42, Bill depth 4.34, Bill width 3.77,  
wing length 54.11, tail length 31.12, Tarsos 19.69, mid toe 18.56,  
Hallux 13.47, molt: 3rd  $\downarrow$   $\frac{\text{tail } 17.81}{28.13}$ , 3rd  $\downarrow$   $\frac{40.19}{44.65}$ ; Round 6.36
- JIS251 Melospiza melodia fisherella ♂ imm. 11 August 1991. wt 17.0 gms  
Banded 77-96170 PL. 16 days old. Parents JIS247+248. Reared by JIS252<sup>+264</sup>  
Tissue saved. Bill length 5.57, Bill depth 4.29, Bill width 3.62, wing length 56.71,  
tail length 31.05, Tarsos 19.35, mid toe 18.58, Hallux 13.33,  
molt: 3rd  $\downarrow$   $\frac{40.89}{44.24}$ , tail  $\frac{13.92}{25.22}$ ; Round 5.74, L - 1.14 + 0.84; L 1.1 x 0.82
- JIS252 Melospiza melodia fisherella ♀ adsk. 11 August 1991. wt. 18.0 gms.  
Banded 77-96025  $\frac{PL}{BL}$   $\frac{FW}{BL}$ . Reared JIS251. Mother of 249+250. Tissue saved.  
Bill length 9.01, Bill depth 5.39, Bill width 4.20, wing length 63.16, tail length 64.33,  
Tarsos 20.88, mid toe 17.48, hallux 13.56, molt: 3rd  $\downarrow$  0, Round 8.24  
Molt of 215264
- JIS253 Melospiza melodia fisherella ♂ imm. 10 August 1991 wt. 19.0 gms.  
unbanded. Tissue saved. Bill length 7.09, Bill depth 5.18, Bill width 3.98,  
wing length 64.37, tail length 52.29, Tarsus 20.10, Mid toe 19.04, Hallux 14.37,  
molt: 3rd  $\downarrow$   $\frac{49.09}{51.61}$ , tail  $\frac{42.38}{50.30}$ ; Round 6.34 Tick found on right side of  
mouth. skeleton only Right T 1.81 x 1.36; L 2.05 x 1.24



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Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft.

JIS 254 Melospiza melodia fisherella. imm. 10 August 1991 wt. 17.0 gms  
unbanded. Tissue saved. Bill length 7.66, Bill depth 5.71, Bill width 4.26,  
Wing length 58.10, Tail length 58.57, Tarsus 19.25, Mid toe 17.75, Hallux 13.90,  
molt: 3rd  $1^{\circ}$   $\frac{47.19}{47.19}$ , tail  $\frac{56.03}{56.03}$ ; Roundness 6.50. skeleton Only.  
glands not found

JIS 255 Melospiza melodia fisherella ad SK. 11 August 1991 wt. 19.50 gms  
unbanded. Tissue saved. Bill length 9.31, Bill depth 5.71, Bill width 5.09,  
Wing length 64.05, Tail length molt, Tarsus 19.65, Mid toe 18.63, Hallux 14.98,  
molt: 3rd  $1^{\circ}$   $\frac{Wing \text{ length}}{47.19}$ , tail  $\frac{56.03}{56.03}$ ; Roundness 7.02. skeleton only

JIS 256 Melospiza melodia fisherella ♀ ad SK. 11 August 1991 wt. 17.0 gms  
banded 77-96149  $\frac{PK}{BK}$   $\frac{FW}{6R}$ , Tissue saved. Reared JIS 257. Molt q  
transplant 77-96151. Bill length 8.42, Bill depth 5.91, Bill width 4.67,  
Wing length 60.40, Tail length 61.71, Tarsus 19.92, Mid toe 17.08,  
Hallux 13.99, no molt, Roundness 7.72. Gonads + left leg shot  
Tapeworms in belly cavity

Big Creek Reserve, 5 mi N Lucia, Monterey Co., California 400 ft elev.

JIS 257 Melospiza melodia cooperii ♂. imm. 11 August 1991 wt. 15.5 gms  
Banded 77-96166  $\frac{OF}{OR}$ . 17 days old. Reared by JIS 256. This chick was  
incubated, reared + collected at Sagehen Creek Field Station, 3 mi NW Hobart  
Mills, Nevada Co., Calif 6300 ft elev. Bill length 6.23, Bill depth 4.40,  
Bill width 3.92, Wing length 53.60, Tail length 31.00, Tarsus 20.04, Mid toe 16.77,  
Hallux 12.54, molt: 3rd  $1^{\circ}$   $\frac{39.32}{44.05}$ , tail  $\frac{17.96}{28.44}$ . Round 5.98  
1 day + ground shot

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft.

JIS 258 Melospiza melodia fisherella ♀ ad SK. 22 August 1991 wt. 18.5 gms  
unbanded. Parent of 77-96175-77. Mate of JIS 259. Bill length 8.95  
Bill depth 5.82, Bill width 4.91, Wing length 59.98, Tail length 64.36,  
Tarsus shot, mid toe 17.31, hallux 13.21, molt: no  
Round 9.57 left ovary 3.49 x 2.16 266.5  $\frac{266.5}{266.5}$  off pair



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Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif 6300 ft.

J15259 Melospiza melodia fusculenta ♂ adsk. 22 August 1991. wt. 21.0 gms  
unbanded parent of 77-96175-77. Mate ♀ J15258. Bill length 8.26,  
Bill depth ~~5.73~~<sup>5.73</sup>, Bill width 5.06, Wing length 60.96, Tail length 57.87,  
Tarsus 19.44, Mid toe 17.63, Hallux 19.49, molt: Tail coverts  
Round 7.02 Tissue saved. L-T 2.57x1.54, R 2.43x1.68

J15260 Melospiza melodia fusculenta ♂ adsk. 23 August 1991 wt. 22.0 gms  
mbanded parent of 77-96185-88 mate ♀ <sup>wh wh</sup><sub>fw fw</sub> (J15265)  
Bill length ~~9.53~~<sup>9.53</sup>, Bill depth 5.73, Bill width 4.97, Wing  
length 65.76, Tail length 64.75, Tarsus 19.32, Mid toe 19.10,  
Hallux 19.06, molt: Tail coverts. Parent ♀ J15262  
Round 8.61 L - 2.09x1.59; R 2.04x1.72 Testes.

J15261 Melospiza melodia fusculenta ♀ adsk 22 August 1991 wt. 19.0 gms  
banded ♀ 77-96116 <sup>GB OR</sup><sub>FW OR</sub>. parent of 77-96189-190. Reared 77-96185-  
77-96188. Tissue saved. (Mate was banded last yr ~~GB~~?). Bill length 8.53,  
Bill depth 5.67, Bill width 4.93, Wing length 62.39, Tail length 66.27,  
Tarsus 20.83, Mid toe 16.45, Hallux 13.71, molt: ~~Tail coverts~~ no  
Round 8.44 left ovary. 9.34x2.46 left leg shot

J15262 Melospiza melodia fusculenta ♀ imm. 22 August 1991 wt. 16.0 gms  
banded 77-96186 wh. Reared by J15261. Offspring of J15260 + <sup>wh wh</sup><sub>fw fw</sub>  
15 days old. Tissue saved. Bill length 6.22, Bill depth 4.33, Bill width 4.29,  
Wing length 52.06, Tail length 21.85, Tarsus 19.06, Mid toe 18.45, Hallux 13.80,  
molt: . Reared 3rd<sup>10</sup> <sup>3.4.14</sup><sub>3.9.93</sub>, tail <sup>12.22</sup><sub>20.05</sub> Round 7.42  
left ovary 2.04x1.24 spec fat

J15263 Melospiza melodia fusculenta ♂ adsk. 22 August 1991 wt. 21.0 gms  
Banded 1431-14508 BK. Tissue saved. Bill length 8.37, Bill depth 5.84, Bill width 4.27,  
Wing length 66.34, Tail length molted, Tarsus 19.30, Mid toe 18.58, Hallux 13.74,  
molt: tail + 1's, belly Round 9.23 Right leg shot Testes L-2.24x1.62, R 1.83x2.47  
some fat



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1991

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## Catalog

~~Wadsworth Creek Field Station, 3 mi NW Hobart Mill, Nevada Co., Calif.~~ 6300 ft

JIS264 Melospiza melodia fisherella ♂ adsk. 21 August 1991 wt. 24.5 gns  
 Banded 77-96179 <sup>FW wh</sup><sub>BL PK</sub> Mate of JIS252. Reared JIS251+  
 Parent of JIS249+250. Tissue saved. Bill length 9.17, Bill depth 6.26,  
 Bill width 5.42, wing length 65.67, Tail length 65.70, Tarsus 21.15, Mid toe 17.50,  
 hallux 14.50, molt 1st 10's, wing + tail covers Round 8.94  
 Both legs shot much fat Testes L 2.42 x 2.04, R 2.13 x 1.76.

JIS265 Melospiza melodia fisherella ♀ adsk. 22 August 1991 wt 20.5 gns  
 Banded 77-96148 <sup>wh</sup><sub>FW</sub> Mate of JIS260. Reared  
 Parent of JIS262. Tissue saved. Bill length 9.22, Bill depth 6.02,  
 Bill width 4.98, wing length 60.53, Tail length 61.13, Tarsus 20.38  
 Mid toe 17.51, hallux 14.56. Molt: tail covers  
 Round. 5.44 LOVARY 2.22 x 4.07 some fat

JIS266 Melospiza melodia fisherella ♀ imsk. 22 August 1991 wt. 21.0 gns  
 Banded 77-96176 <sup>TIS268</sup><sub>R</sub> offspring of JIS258+259. Sib of 77-96175+177.  
 29 days old. Tissue saved. Bill length 7.52, Bill depth 5.55, Bill width 4.53,  
 wing length 65.41, Tail length 57.70, Tarsus 18.90, Mid toe 18.0, Hallux 13.87,  
 Molt: 3rd 1°  $\frac{50.27}{50.27}$ , tail  $\frac{44.24}{54.71}$ . Round 10.28 much fat Left ovary 2.82 x 1.08

JIS267 Melospiza melodia fisherella ♂ inst. 22 August 1991 wt. 15.5 gns  
 Banded 77-96190 <sup>6R</sup> offspring of JIS261. Sib of JIS274. 22 days old.  
 Tissue saved. Bill length 5.32, Bill depth 4.25, Bill width 4.09,  
 wing length 46.80, Tail length 7.92, Tarsus 19.79, Mid toe 17.33,  
 Hallux 12.25, Molt 3rd 1°  $\frac{31.76}{37.76}$ , tail  $\frac{9.84}{18.98}$ ,  
 Round 6.46 Right leg shot gonads shot Roundly JIS265+260.

JIS268 Melospiza melodia fisherella ♀ imsk. 22 August 1991 wt. 17.0 gns  
 offspring of JIS258+259. Sib of JIS266. Banded 77-96177 & R. 29 days old  
 Tissue saved. Bill length 7.41, Bill depth 5.20, Bill width 4.45, wing length 59.95, Tail  
 length 59.23, Tarsus 20.20, Mid toe 16.64, Hallux 13.60, molt 3rd 1°  $\frac{46.86}{46.86}$ ,  
 tail  $\frac{39.88}{46.86}$  Round 7.13 Left wing 2° 1+2.0 some fat



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Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft

JIS269 Melospiza lincolni ♂ adsk. 23 August 1991 wt. 21.0 gms

skeleton only. Tissue saved. some fat

JIS270 Melospiza lincolni ♂ adsk 23 August 1991 wt. 18.5 gms

skeleton only. Tissue saved. some fat Primaries + tail molting

JIS271 Melospiza melodia fuscula ♂ imsk 22 August 1991 wt. 21.0 gms

skeleton only. Tissue saved. Gonads shot some fat

JIS272 Melospiza melodia fuscula ♀ imsk 22 August 1991 wt. 21.0 gms

skeleton only. Tissue saved some fat

JIS273 Melospiza melodia fuscula ♂ imsk 22 August 1991 wt. 17.5 gms

offspring of JIS265+260, Reared by JIS261, sib of JIS262.

Tissue saved. Banded 77-96185 wh. 15 days old. Bill length 5.94,

Bill depth 4.19, Bill width 3.66, wing length 52.78, tail length 24.51,

Tarsus 20.99, Mid toe 16.71, Hallux 13.43, molt: 3rd I<sup>o</sup>  $\frac{33.52}{40.05}$

tail  $\frac{12.58}{20.28}$ ; Round 4.47 left by shot, right by shot much fat

left T 1.02 x 1.03, R 0.8 x 1.0

JIS274 Melospiza melodia fuscula ♂ imsk 23 August 1991 wt. 15.5 gms

Banded 77-96189 GR sib of JIS267, offspring of JIS261, Reared by

JIS265+260. Tissue saved. 16 days old. Bill length 5.19, Bill depth 4.47,

Bill width 4.24, wing length 51.06, Tail length 22.79, Tarsus 18.71, Mid toe 17.5,

Hallux 13.09, molt 3rd I<sup>o</sup>  $\frac{33.09}{40.33}$ , tail  $\frac{8.71}{17.82}$ ; Round 4.59

left Testis L 21 x 0.37 R 1.35 x 0.89. some fat

JIS275 Melospiza melodia fuscula ♂ imsk. 21 August 1991 wt. 19.5 gms

Banded 77-96167 YL. 28 days old. Reared by JIS252+264. sib of JIS251

Parents are JIS247+248. Tissue saved. Bill length 6.64, Bill depth 5.10,

Bill width 4.51, wing length 64.07, Tail length 54.75, Tarsus 20.62,

Mid toe 17.47, Hallux 14.19, molt 3rd I<sup>o</sup>  $\frac{50.21}{50.21}$ , tail  $\frac{39.68}{48.69}$ ;

Round 6.31 Testis L 1.50 x 1.19 R 1.29 x 1.09. some fat



Smith, J  
1989

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# Bandij Catalog

31-14505

Russell Tree Reservation 2 mi NW Lafayette Santa Clara Co. Calif

IB

♂? left leg FWS red rt leg white date - 9 Mar 1989  
pink

Bill length - 8.5 ; Bill depth - 4.0

Bill width - 4.5 ; wing length - 60

tail length - molted ; tarsus 20

mid toe 13 hallux w/claw 12.5

molt:

Brood patch

age

skull

fat

cloacal protub 5.0

remarks - captured in net set around  
wood pile ~75 yds NE of mulberry patch.

031-08901 Russell Tree Reservation

Green 1989

①

u? left leg thru yellow  
green at blue  
green  
FWS

Bill length - 9.75

Bill depth 5.0

Bill width 4.0

wing length 56

Tail 57

Tarsus 18

mid toe 19

hallux w/claw 14

molt - none

cloacal protub 4.0

Brood patch no

age ?

Skull

fat - set for fat

remarks left main toe deformed



Sunfy

1989

8902

3444

031-89

①

9 Mar 1989

Bandy Catley

2

Russell Tree Reservation, 2 mi NW Lafayette, Contra Costa Co., Calif

Left leg green/FWS rt. ~~orange~~ orange/black

Bell length 9.0

Bell width 5.5

tail length 61

mid toe 20

rotl-head

Broad patch no

age

fat set fine fat

Remarks rear of head very bare and dry  
only 2 obvious pin feathers

Bell depth 6.0

wing length 59

tarsus 19

hallux/claw 14

clear cal prot 6.0

stull

2031-8903

BK : Green

caught at small pond

FWS : OR

in pond at base of  
packing area

Bell length 9.0

Bell depth 5.5

Bell width 4.5

wing length 60

tail length 63

tarsus 20

mid toe 17

hallux/claw -

rotl no

clear cal prot. 6.5

Broad patch no

stull

age

fat lower belly

Remarks



14th (J)  
1989

Bandng Catalog

3

~~Russell's Reservation, 2 mi NW Lafayette Centre, Contra Costa Co., Calif.~~  
~~1200 ft.~~  
14 Mar 2031-8904.8 at the mulberry bush  
left Blue/PWS : rt red/green

Bill length 8.5

Bill width 4.5

tail length 65

mid toe 17.0

molt

Brood patch no

age no

fat no

remarks

Bill depth 5.5

wing length 60

tarsus 19.5

hallux w/claw 13

skull

cloacal 5.5

wt (30 Mar) 23.0g

2031-8905 at The brush pile NE of mulberry

left Rd :  $\frac{PL}{BR}$  ?

Bill length 8.5

Bill width 4.5

Tail length 59

mid toe 17

molt

Brood Patch no

age no

fat no

remarks

Bill depth 5.5

wing length 58

tarsus 22

hallux claws 12

skull

cloacal prot. 3



Smith JV

1939

Bandy Catbird

4

Bunell Tree Reservation, Co. Newfane, Contra Costa Co., Calif. 1300 ft.

17 Mar 2031-8906 ♀.  $\frac{4}{5}$   $\frac{4}{5}$   $\frac{4}{5}$   $\frac{4}{5}$   $\frac{4}{5}$ , Area S of mulberry in Backbar

Bill length 8.0

Bill depth 5.0

Bill width 4.0

wing length 59

tail length 20.4

tarsus 13.5

mid toe 18.0

hallux w/claw 13

noct tail

skull

Breast patch no

cloaca 5.0

age

fat 0?

remarks: Has large tick on left side of cap. Below  
9 big head full song by positive mate while banding

2031-8907?  $\frac{4}{5}$   $\frac{4}{5}$ :  $\frac{4}{5}$   $\frac{4}{5}$  west of mulberry in Backbar

up the slope

Bill length 9.0

Bill depth 5.5

Bill width 4.5

wing length 67

tail length 21

tarsus 19

mid toe 17

hallux w/claw 13.5

noct no

stool

Breast patch no

cloaca 6.5, swollen

age

wt 21.5

fat

remarks



March 19  
1939

# Bandy Catalog

5

Hunell tree Reservation 2 mi NW Lafayette Contra Costa Co. Calif.

28 Mar 2031-8908 In the Henlock patch E of mulberry  
tree ~ 150yds. ~~WPK~~ <sup>PK</sup> ~~DL~~ <sup>DL</sup>  
BK

bill length 6.5

Bill depth 5.5

Bill width 4.5

wing length 60.0

tail length 57

tarsus 21.0

mid toe 18.0

hallux w/claw 14.0

molt no

skull no

brood patch no

cloaca 7.0

age

fat no

remarks

2031-8909

$\frac{BK}{FW} : \frac{PK}{WL}$

At the Brushpile

By the pond.

Bill length 8.0

Bill depth 5.0

Bill width 4.0

wing length 58

tail length 56

tarsus 20

mid toe 17

hallux w/claw 13

molt no

skull

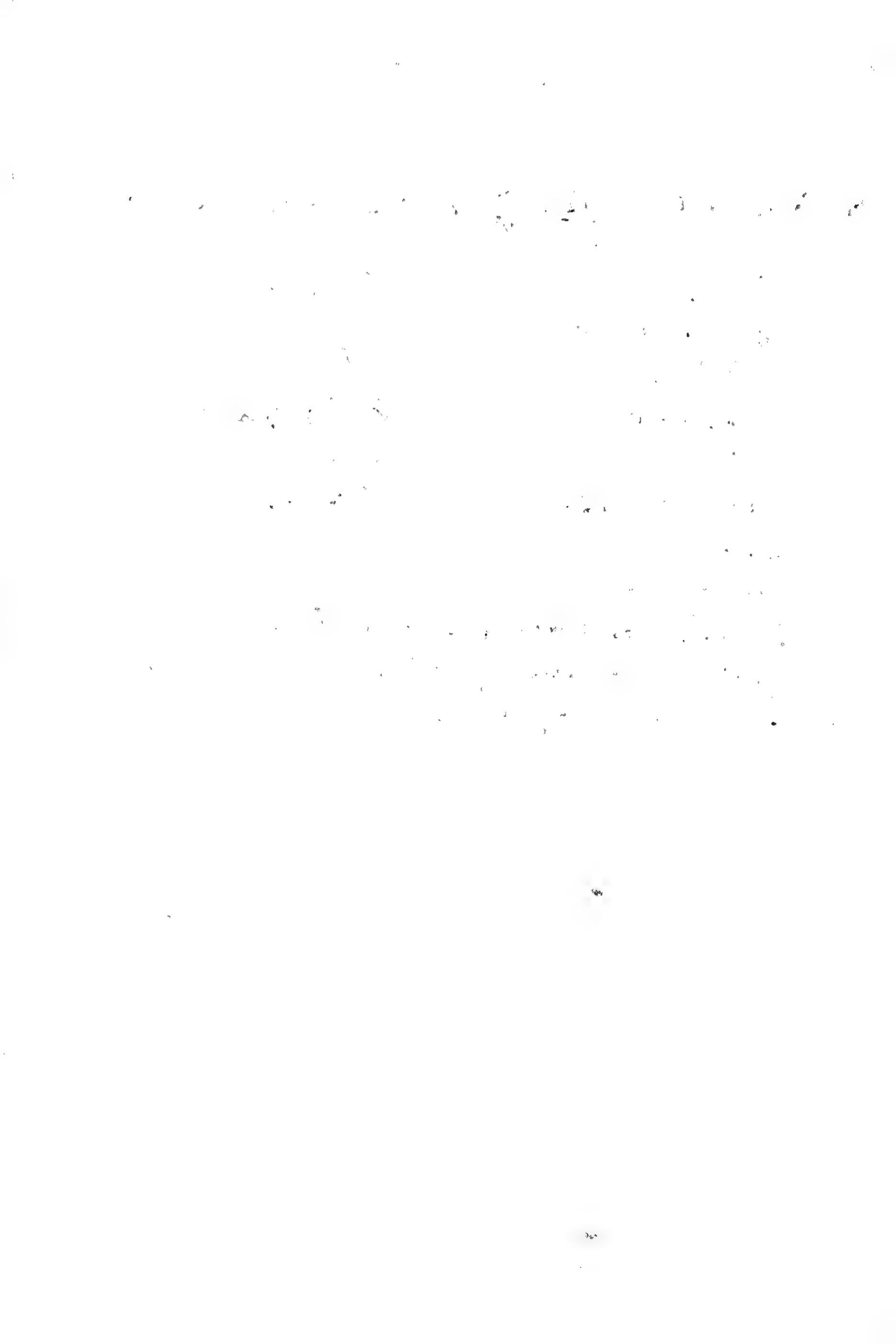
brood patch no

cloaca 4.5

age

fat

remarks:



Smith, D  
1989

Bandy Catalog

5

28 May 2031 - 8910 OR : BL  
 $\frac{BL}{FW}$  : RD on w side of Pond. in Hullock

bill length 9.0

bill depth 5.5

bill width 5.0

wing length 62

tail length 60

tarsus 20

mid toe 16

hallux w/claw 12.5

molts

skull

brood patch ~~strong~~

cloaca 7 swollen

age

fat cloacal

Remarks: It would give a full ♂ say and then flap its wings back and forth like pre-coy motion. Screamed so I pulled it out quiet.

30 May 2031 - 8911 ♂ W/FW: BK/GR on N hillside 100 yds  
W of cattle pond above the electric fence plot

bill length 8.5

bill depth 5.5

bill width 4.5

wing length 59

tail length 60

tarsus 21

mid toe 17.5

hallux w/claw 13.0

molts

skull

brood patch no

cloaca 6.0 swollen

age

: wt 20.5

fat no

Remarks - uropygial gland enlarged 



Smith, J.  
1939

Bandy Catalog

7

Russell factors.

		OR
30 Mar	2031-8912 ♂ .	at cattail pond
		$\frac{FW}{BR} : \frac{BK}{BL}$
	bill length 8.5	bill depth 5.5
	bill width 4.5	wing length 59
	tail length 62	tarsus 20
	mid toe 19	hallux w/ claw 14
	molts	skull
	broad patch no	claw 7.0
	age	wt -
	fat no	
	remarks	

31 Mar 2031-8913 ♀ . E most territory near pine  
grove. FW/BK : RD/BL

bill length	8.0	bill depth	5.0
bill width	4.5	wing length	55
tail length	56	tarsus	20
mid toe	19	hallux w/ claw	12.5
molts		skull	
broad patch long w/		claw 6.0	
age		wt 18.0	
fat			
remarks - female caught in net, bled.			



Guttmann  
1989

Bandy Catalog

8

Russell Jones. 2 mi. NW Lafayette, Costa Rica Co., elev 1300 ft.  
31 Mar 1931-8914♂<sup>♂</sup> mate of 8913. ~~FW : BK~~ <sup>3.3</sup> ~~left leg broken~~ ~~banded~~ ~~right leg~~

at the Pine genus on E end of reserve.

Bill length 9.0

Bill depth 6.0  $\frac{FW}{BK} : \frac{BK}{TL}$

Bill width 5.0

wing length 58

tail length 59

tarsus 21.0

mid toe 20

hallux w/ claw 15.0

wt 10

skull

broodpatch

clown 7.0

age

wt

fat fuscous

Remarks: fluorescent orange stripe on tip of  
clown

IB 1931-8506♂  
~~2031-8915 ♂~~ By end of east drive 50 yds W of  
road circle. ~~FW : BK~~ <sup>3.3</sup> ~~left leg broken~~ ~~banded~~  $\div : \frac{FW}{PL}$

Bill length

Bill depth

Bill width

wing length

tail length

tarsus

mid toe

hallux w/ claw

wt

skull

broodpatch

clown

age

wt

fat

Remarks: Had large fleaky tars



Smith, J  
1989

Bardig Catalog

9

Russell Ranch. Lisi NW Lafayette, Contra Costa Co. Calif. 1300ft  
1 April 2031-8916 ♀. Netted on w side of draw with small  
pine grove. FW/BL:  $\frac{46}{68}$

Bill length 8.0 Bill depth 5.5

Bill width 5.0 wing length 60

tail length 58 tarsus 19.0

mid toe 17.0 hallux w/claw 13.0

molt n° skull

broodpatch no cloaca 4.0

age wt 19.0 (?)

fat some fuscous ab. belly

REMARKS

2031-8917 ♂ mate of 8916. Netted in w side of draw  
with small pine grove  $\Sigma$  ~~to~~ 200 yds from central  
valley. FW/BL  $\frac{46}{68}$

Bill length 9.0 Bill depth 5.5

Bill width 4.5 wing length 58

tail length 59 tarsus 19.5

mid toe 18.0 hallux w/claw 14.0

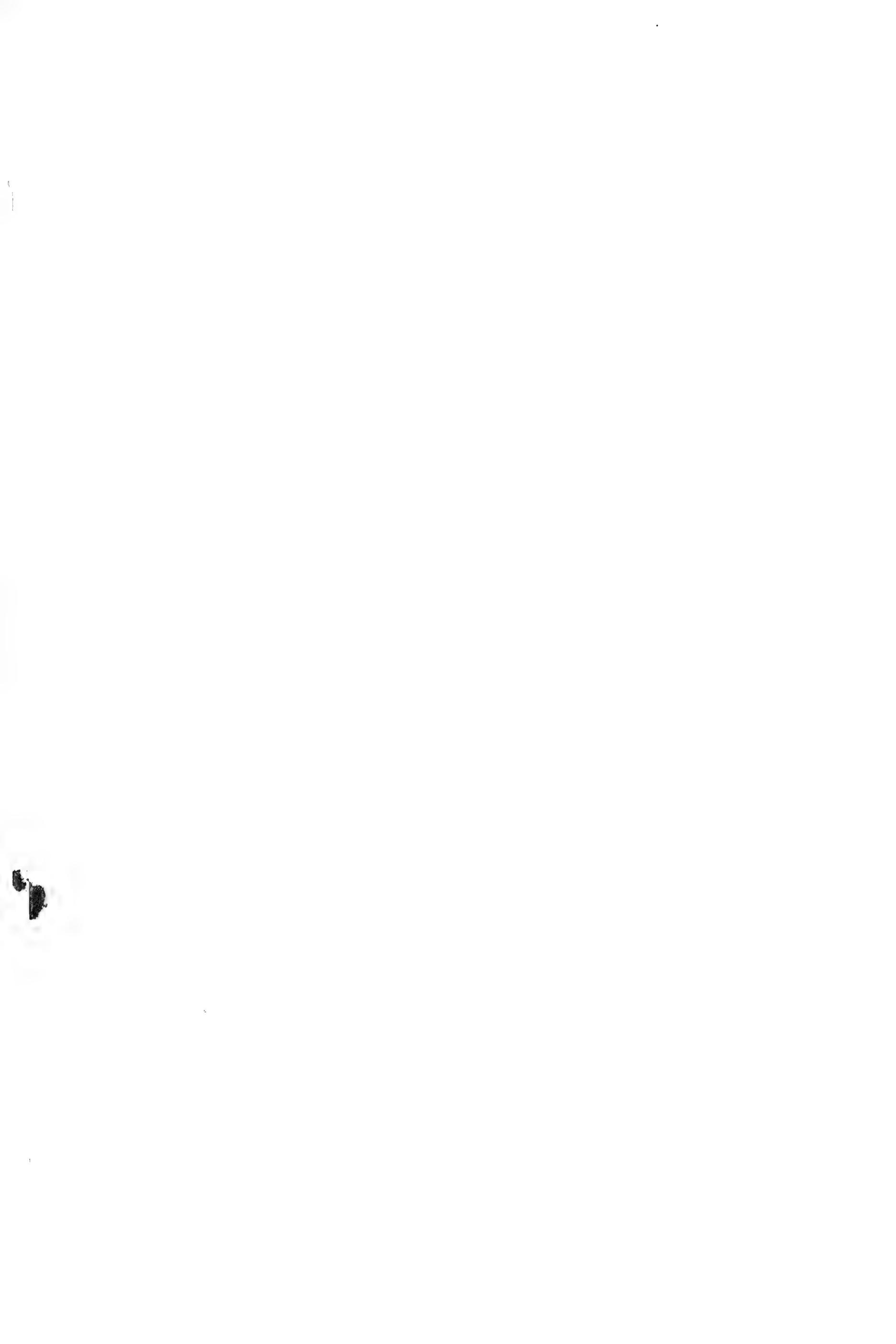
molt n° skull

Broodpatch no cloaca 7.0 swollen

age wt 20.5

fat ~~at~~ lower breast

REMARKS



Smith, J  
1989

Baird's Catbird

10

Russell Inn Reservation 2 mi NW Lafayette Contra Costa Co. Calif  
4 April 2031-8918 ♂ FW/VR: <sup>WS</sup> 130g  
<sup>180g</sup>

Netted on S side of draw with small pine grove ad <sup>FW/BL</sup> BL's.

Bill length 9.0

Bill depth 5.5

Bill width 4.5

Wing length 63.0

Tail length 63.0

Tarsus 20.0

Middle toe 17.5

Hallux w/claw 14.0

Molt no

Skull

Broodpatch no

Cloaca 9.0 swollen

Age

WT excepted

Fat under sternum

Remarks

18 April Taylor Creek Field Sta.

Nevada Co., Calif

2031-08919 ♂ <sup>RD</sup> FW <sup>OR</sup> BL

Sinistral

~~1441503~~

Bill length 9.5

Bill depth 6.5

Bill width 5.5

Wing length 68

Tail length 60

Tarsus 20

Middle toe 20

Hallux w/claw 15

Molt no

Skull

Broodpatch no

Cloaca 8.0 swollen

Age

WT 21.5

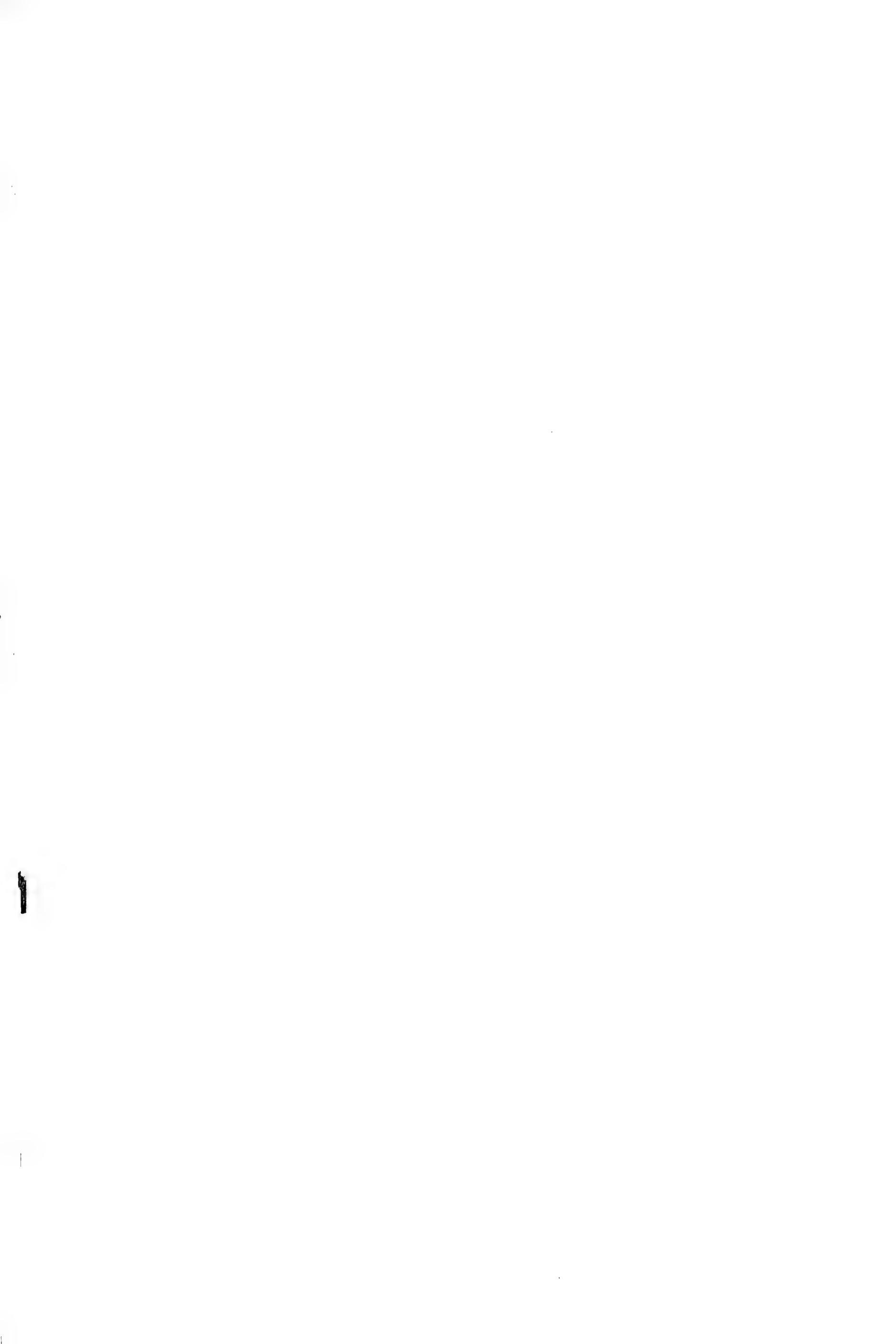
Fat some fuscous ad below sternum

Comments lost 7 tail feathers while banding

Flagged territory on S side of creek

150 yds from foot bridge in willows

Friday



11th of  
1989

Bandy Catalog

11

Sayre Creek Field Station

18 April 2031 - 08920 ♂  $\frac{4}{4}$ /FW  $\frac{8}{8}$ /GR singing

Bell length 10

Bell width 5.5

tail length 70

mid toe 13

molt no

broodpatch no

age

fat little furc some below sternum

remarks had small lice like creatures 1mm long

body segmt Rx width of head. Tail worn

In a willow thicket 100yds S of 1st

territory flagged & too

Bell depth 7

wing length 70

tarsus 20

hallux w/claw 14.5

skull

cloaca 7.0

wt 21.0

2031-08921 ♂ BL/FW PK/ $\frac{1}{BL}$

call on island E of  $\frac{4}{4}$ /FW 350yds flagged

Bell length 9.5

Bell depth 5.5

Bell width 5.0

wing length 69

tail length ~~5~~ 65

tarsus 21

mid toe 20

hallux w/claw 15

molt no

skull no

broodpatch ?

cloaca 6.0

age no

wt eraged

fat under sternum

remarks:



South, D  
1989

Bandy Catalog

12

Saphe Creek Field Station

18 April 2031-08922 ♂ BK/Fw RD/4L

60yds east of BYFw on s side of creek. Flaged

Bill length 9

Bill width 6

Bill depth 5

wing length 67

tail length 65

Tarsus 19.5

med toe 19

hallux w/claw 16.0

molt no

skull no

brood patch no

cloaca 7.0

age

wt 20.0

fat understream some

remarks

2031-08923 ♂ BK/Fw GR/Wh

75yds E of BYFw S side of creek in willows. Flaged

Bill length 8.5

Bill width 6.0

Bill depth 5.0

wing length 70

tail length 71

tarsus 20

med toe 20

hallux w/claw 15

molt no

skull

brood patch no

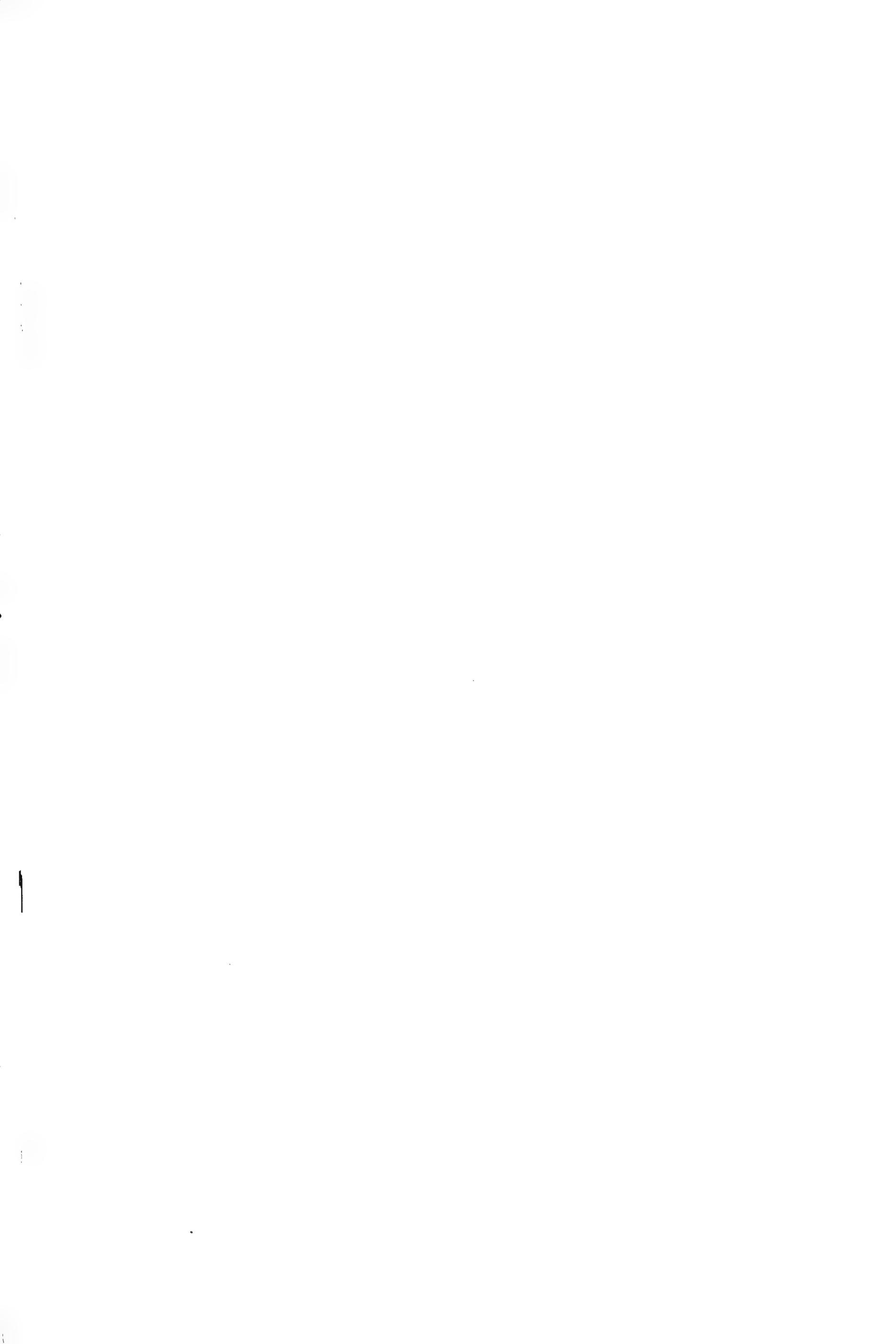
cloaca 7 swollen

age

wt 20.5

fat understream

remarks



South G  
1989

Bandy Catalog

13

Sayochreec Field Station

18 April

2031-08924  $\frac{PK}{FW}$   $\frac{BK}{OR}$  ♂?  $\approx$  60 yds from  $\frac{OR}{FW}$   
This is the territory where I found nest last year flagged

Bill length 9.5

Bill length 6.0

Bill width 5.0

wing length 71

tail length 72

tarsus 20

mid toe 19

hallux w/ claw 15

molt no

skull no

broodpatch no

cloaca 0.5 mm

age no

wt 20.0

fat much preen oil pat, very little stored

remarks

19 April

2031-08925 ♂ wh/fw  $\frac{PK}{RD}$

1st ♂ seen side of creek fronting long hair campsite with all the mammal dens broken

Bill length 9.5

Bill length 6.0

Bill width 5.0

wing length 70

tail length 69

tarsus 20

mid toe 20

hallux w/ claw 15.0

molt no

skull no

broodpatch no

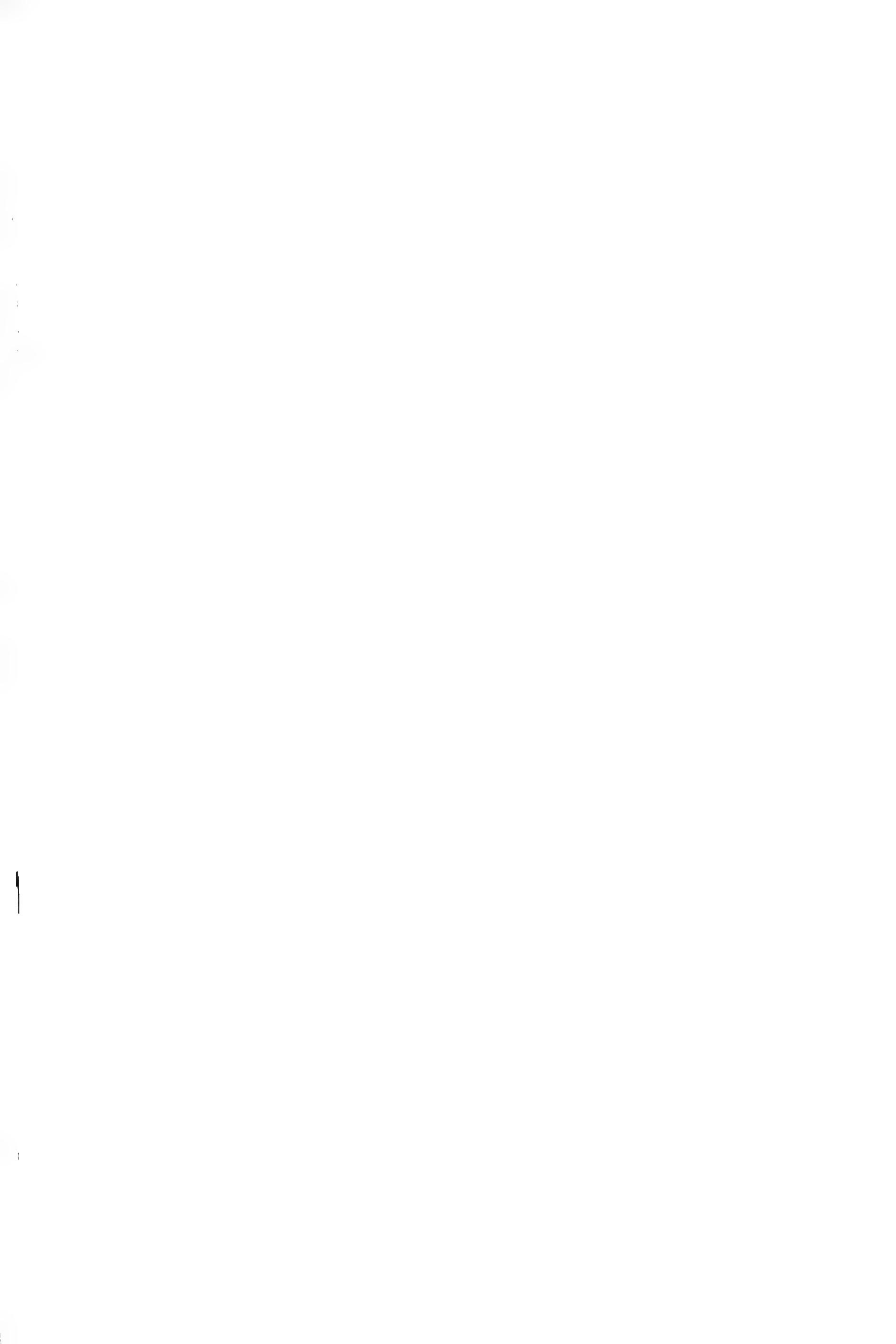
cloaca 9

age no

wt 19.0

fat no

remarks scaly at bottom of head/feather shafts



South Pt  
1989

Bandy Catalog

14

Sagebrush Field Station

19 April

2031-08926 ♂ GR/FW  $\frac{OR}{TL}$

Bill length 9.0

Bill width 5.0

Tail length 66

Molt no

Broodpatch

age

fat no

Remarks

Bill depth 6.0

wing length 65

Tarsus 21.0

Hallux w/claw 16.0

Skull \*

cloaca 7.0

wt 19.5

2031-08927 ♂

Fw/RD BL/wh

Bill length 9

Bill width 5

Tail length 67

Molt 19

Molt no

Broodpatch no

age no

fat no

Remarks

Bill depth 6

wing length 69

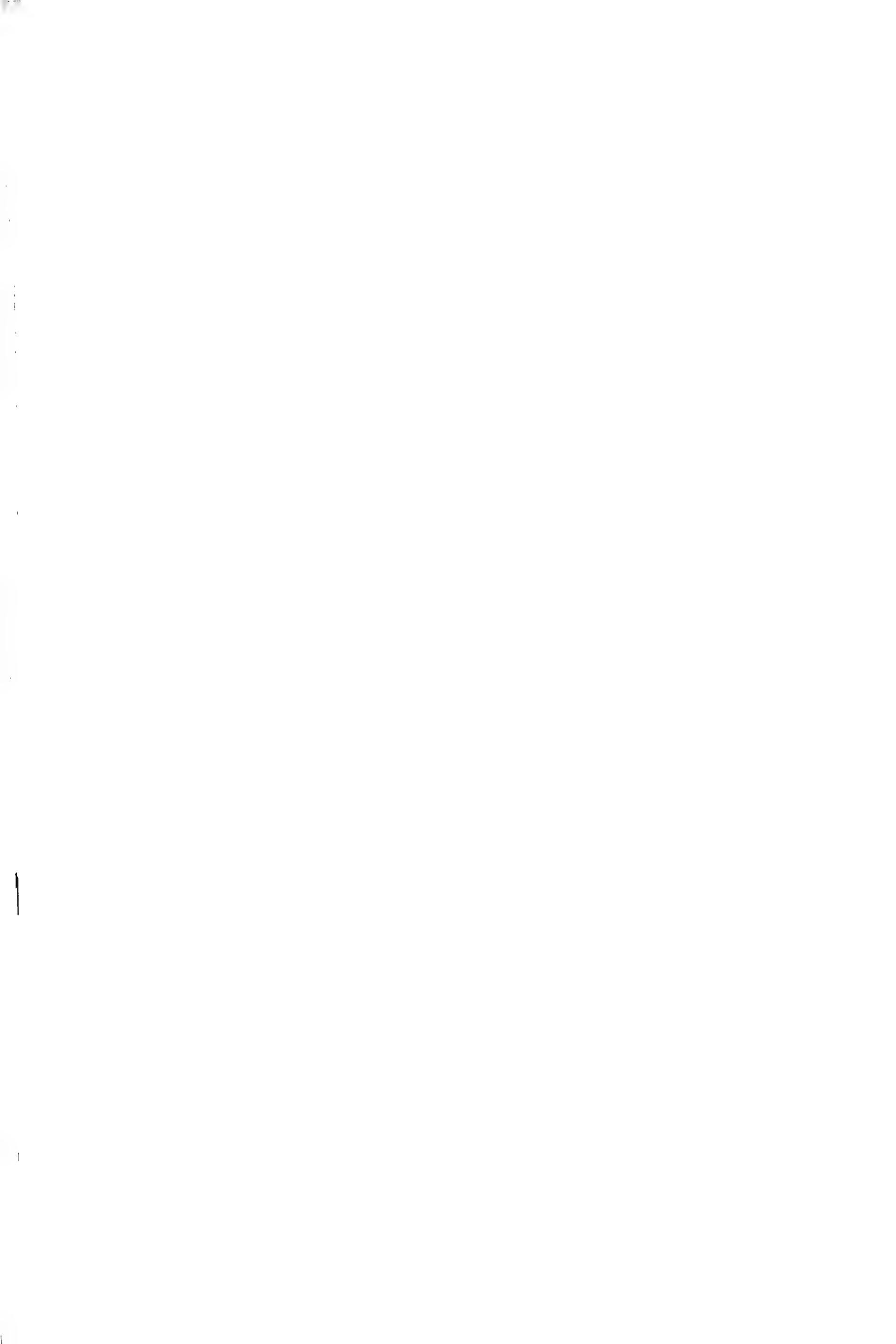
Tarsus 20

Hallux w/claw 16.0

Skull

Cloaca 7.0

wt 19.0



Smith J

1989

Bandy Catalog

15

Seylu Creek Field Station.

19 April 2031-08928 ♀ FW/RD PK/BK mate of 08927

Bill length 9.5

Bill depth 6.0

Bill width 5.0

wing length 66.5

Tarsus tail 63

tarsus 20

mid toe 20

hallux w/claw 15

molt no

Skull

breast patch ~~to~~ cover stony feathers

cloaca 4.0

age no

wt 19.0

fat some pectoral sternum

Remarks

1431-45071B

~~2031-08929~~ ♂ FW/YL BL/GR

Bill length 9.0

Bill depth 6.0

Bill width 6.0

wing length 68

tail length 67

tarsus 19

mid toe 19

hallux w/claw 14

molt - yes tail, back alt, tail covers skull

breast patch

cloaca 7.0

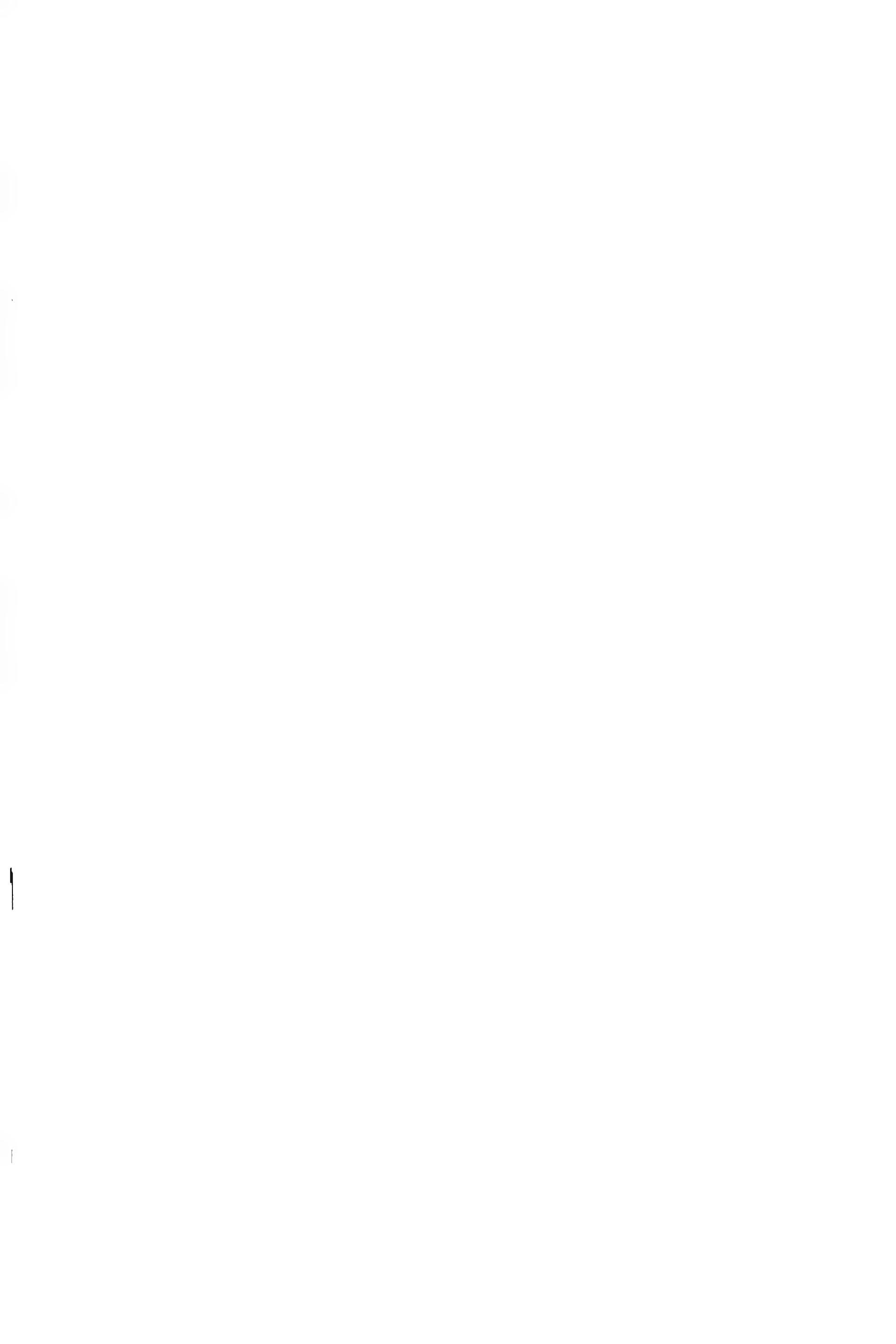
age

wt 20.0

fat no

Remarks - tail molt left outer 3 feathers  $\frac{1}{3}$  emerged

rt side 3rd ad 4th from outer  $\frac{1}{3}$  emerged



Juth, J

1989

Bandy Catalog

16

Sagehen Creek Field Station

19 April

1431 - 145981<sup>b</sup> ♂ FW/BK

Bill length 8.5

Bill width 4.5

tail length 64.0

rust fore 19.0

rust no

broodpatch no

age

fat l.t. fore ad stern ad

remarks yellow at margin of bill, nob on back of

occiput, w. th. & calling

2031-08929 ♂ FW/BK GR/RD 8

Bill depth 5.5

wing length 65.5

tarsus 20

haelax w/claw 14.5

Skull

cloaca 7.0

wt 19.5

Bill length 9.5

Bill width 5.0

tail length 70

rust fore 19.5

rust no

broodpatch no

age

fat l.t. fore

remarks

Bill depth 6.0

wing length 68

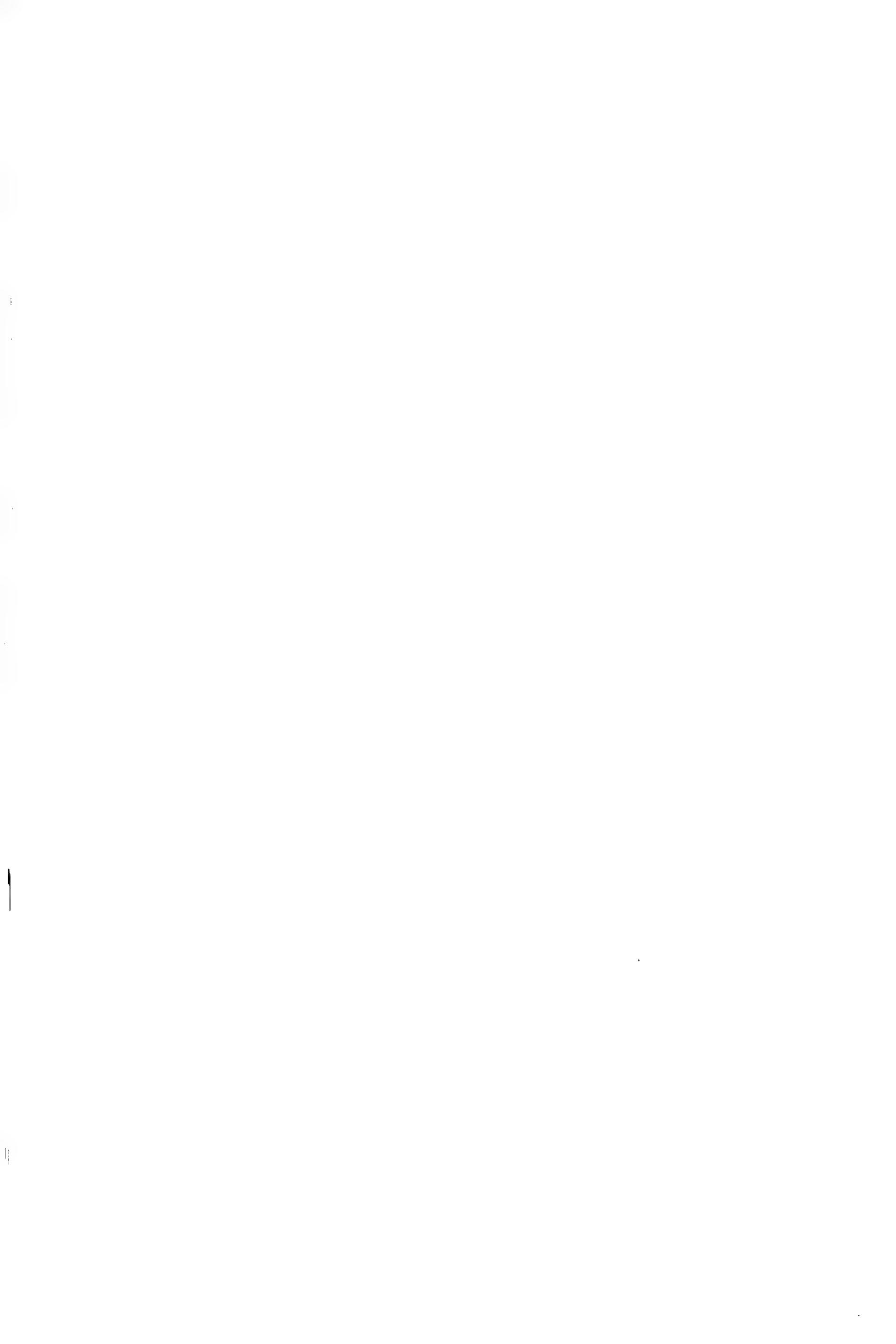
tarsus 20

haelax w/claw 16.0

Skull

cloaca 7.0

wt escaped



Suth, J  
1989

Bandy Catalog

17

Sagehen Creek Field Station

19 April ♀ 1431-<sup>18</sup>14510 ♂ FW/GR WH/PK

Bill length 9.5

Bill width 5.5

tail length 71

mid toe 18.5

moist no

broodpatch no

age

fat no

remarks

Bill depth 6.0

wing length 68

tarsus 20

hallux w/claw 15.5

skull

cloaca 7.0

wt 21.0

1431-14511 ♂ FW/PK WH/GR

Bill length 9.5

Bill width 5.5

tail length 69

mid toe 20

moist no

broodpatch no

age

fat full some

remarks

Bill depth 6.0

wing length 66

tarsus 20

hallux w/claw 16.0

skull

cloaca 8.0

wt 22.5

/

|

|

March 18  
1989

Bandy Catalog

18

Sagehen Creek Field Station

19 April 2031-08930 ♂ FW/wh  $\frac{BL}{BK}$

Bill length 10

Bill width 5.5

Tail length 70

Mid toe 19.5

Molt no

Good patch no

Age

Fat several

Remarks

Bill depth 6.

Wing length 66

Tarsus 20

Hallux w/claw 14.5

Skull

Cloaca 7.0 swollen

WT 22.0

1431-14612 ♂ FW/GR

R/D  
OR

territory just east of <sup>75°</sup> PK/FW  $\frac{BK}{OR}$

Bill length 9.0

Bill width 5.0

Tail length 71

Mid toe 19

Molt tail coverts

Good patch no

Age

Fat much fat, some stored

Remarks

Bill depth 6.0

Wing length 69

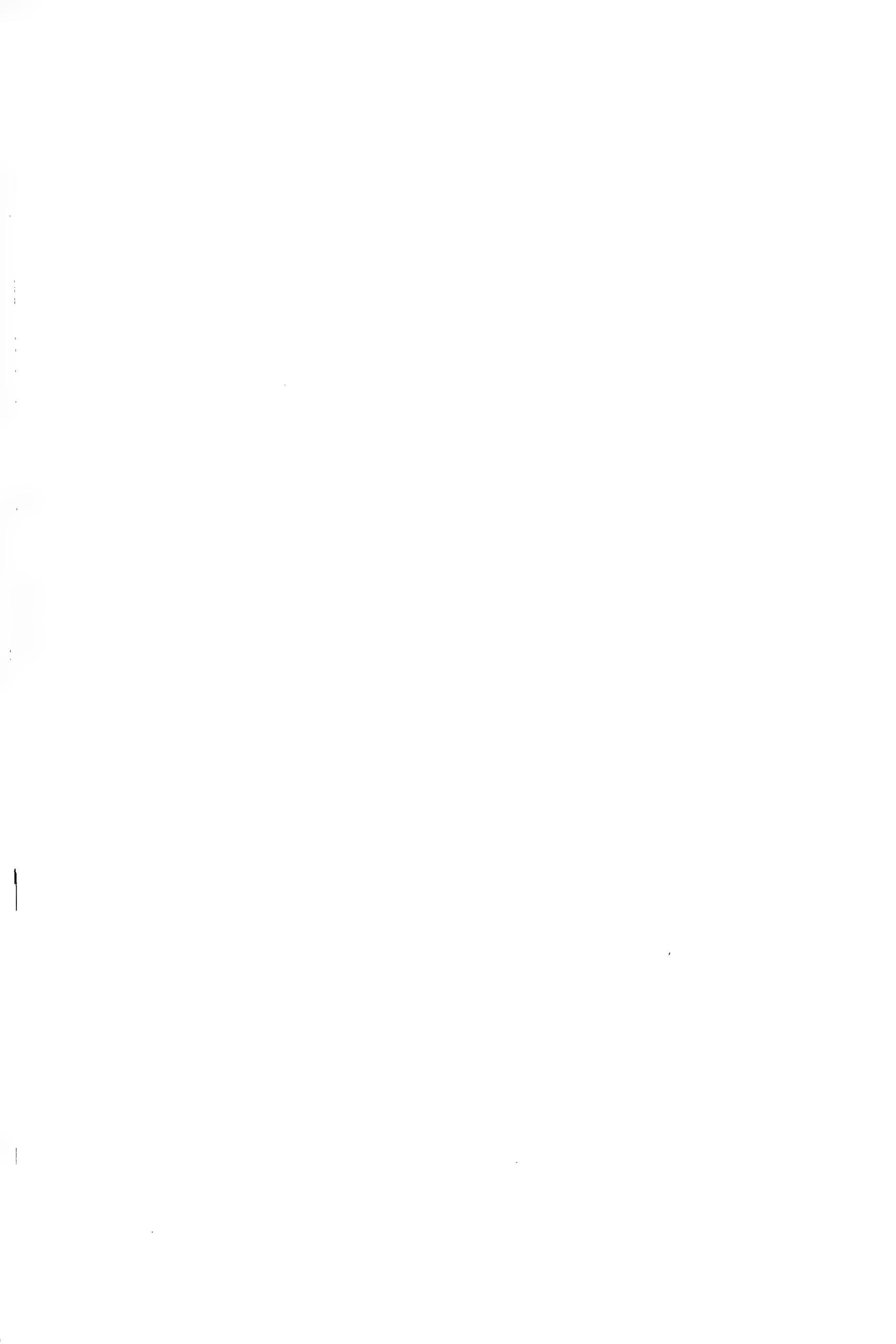
Tarsus 18

Hallux w/claw

Skull

Cloaca 9 swollen

WT 22.5



South of  
1989

Bandy Catalog

19

Saylor Creek Field Sta

20 April

1431 = 14513<sup>13</sup>  
~~2031~~ = ~~08931~~ ♂



YL  
RD  
W  
FW  
BB

N side of creek 1st ♂ S of meadow

Bill length 9.0

Bill depth 5.5

Bill width 5.0

wing length 65

tail length 66

tarsus 20

mid toe 19.5

hallux w/ claw 16.0

metatarsal 10.5

skull

broodpatch no

cloaca 7.0

egg

wt 22.5

fat some sternal

remabs

2031-08931 ♂ GR/PK GR/FW

Bill length 8.5

Bill depth 5.5

Bill width 4.5

wing length 69

tail length 72

tarsus 20

mid toe 19.0

hallux w/ claw 15.0

metatarsal 10.5

skull

broodpatch

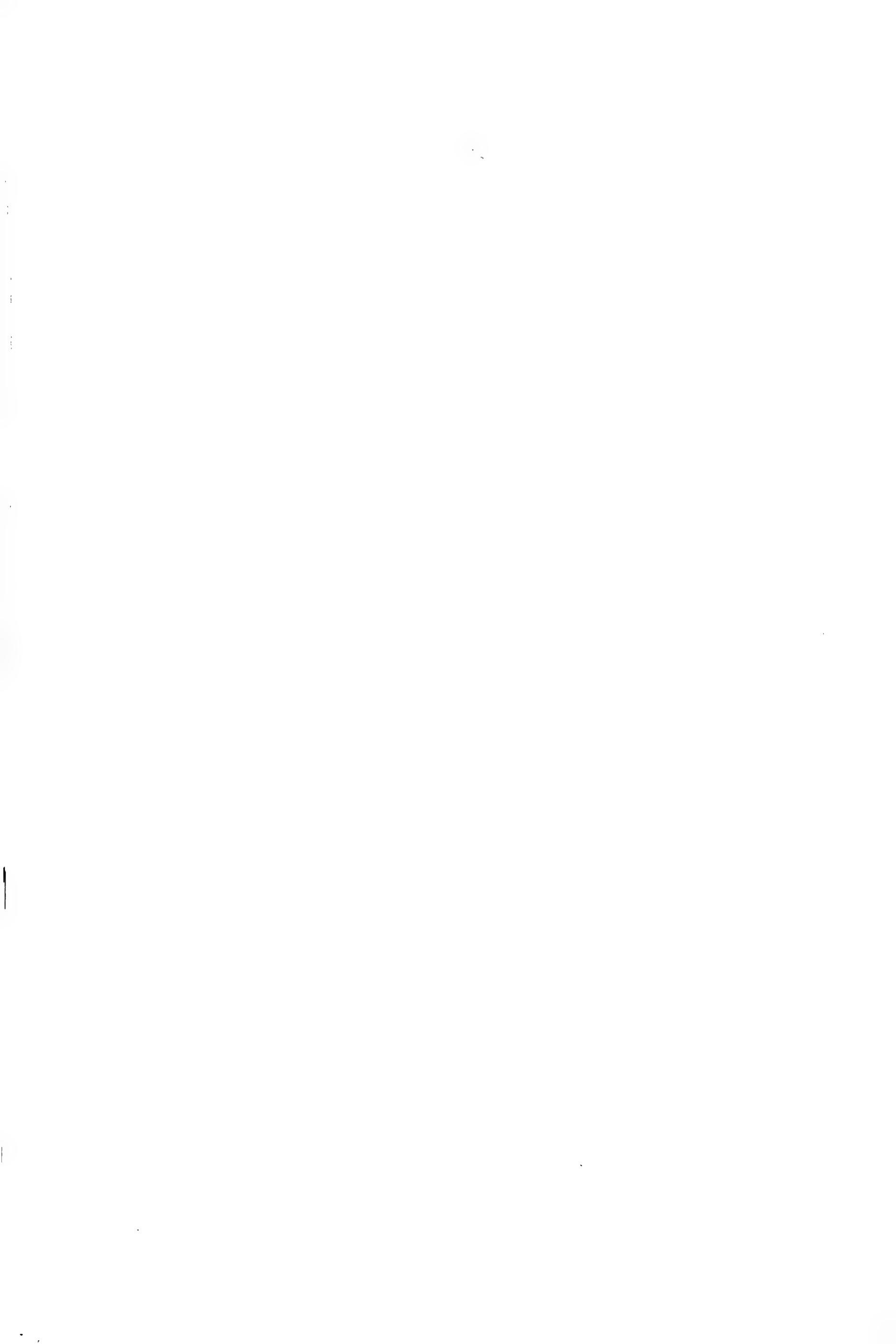
cloaca 8.0

egg

wt 21.0

fat some sternal

remabs



South J.  
1982

Bandy Catdog

20

Sagehen Creek Field Station

20 April 203608932 ♂

$\frac{BK}{Wh}$   $\frac{RD}{FW}$   ~~$\frac{GR}{FW}$~~

Bill length 10.0

Bill width 5.0

tail length 73

nudofor 20

molt no

broodpatch no

age

fat slt fine

remarks

Bill depth 6.0

wing length 70

tarsus 20

hallux w/claw 16.0

skull

cloaca 8.0

wt 22.5

1431-14516 IB

~~2231-08933~~ ♀ FW/GR BL/YL

mate of ~~fw/gr~~ <sup>RD</sup>/OR

Bill length 9.0

Bill width 4.0

tail length 66

nudofor 20.0

molt 5th left from outer  $\frac{1}{3}$  wing skull

broodpatch no

age

fat full stern sore

remarks

Bill depth 5.5

wing length 67

tarsus 19

hallux w/claw 15.

cloaca 4.0

wt 20.5

plus tail coverts  $\frac{1}{2}$  rd  $\frac{1}{3}$  emerge 4 on rt side none on left



Sue P  
1989

Bandy Catalog

21

Runcell Inn Rd. Inn, NW Lafayette, Contra Costa Co. Calif 1300 ft

27 April nestlings at mulberry bush, other mostly juv/dnt  
w/ calipers

Nestling 1	1431 - 14517	on left	8 1/2% on rt
Bill length	5.02	Bill depth 3.78	
Beak width	3.86	wing length 34.21	
tail length	11.52	tarsus 19.38	
mid toe	17.67	hallux w/claw 10.53	
molts	10's 1/2 out, back well feathered head ad, belly yellow breast patch feathers	Skull	
age		cloaca	
fat	Much sternal edification		wt 18.5
remarks			

Mo Per 84/85 OR/82  
~~Nestling 2~~ 2031-08938

Bill length	8.81	Bill length	5.90
Bill width	4.54	wing length	55.55 55.71
tail length	57.04	tarsus	19.78
mid toe	16.82	hallux w/claw	14.02
molts	no	Skull	
Wing patch	yes	cloaca	4.53
age ad		wt	18.0g
fat	no		
remarks			

newly #4

1431 - 14520      BL/RD #4

BL	4.74	BW	3.20
SD	3.55	WL	27.81
TL	6.42	T	18.35
midive	16.90?	Haller's	12.30
		WT	16.0g

1°'s just emerged

Smith JF

22

# Bandy Catalog

Rummell Tree Res., 2 mi NW Lafayette, Contra Costa Co, Calif. 1300 ft

27 April nestly # 2031-08934  $\frac{BL}{RD}$  ♂  $\frac{BD}{TL}$  31

4 at  
nest  
Walt

Bill length 4.27      Bill depth 3.90  
Bill width 3.71      wing length 28.32  
tail length 4.87      tarsus 17.65  
wt toe 10.55      hollow w/c car  
vert 10's just band out at tip tail shorted  
down on back 5 truss 11.36  
woodpatch no belly out  $\frac{1}{3}$  dorsal  
age wt 15.0 g  
fat zone on tail  
Remarks

2nd 1431-14518  $\frac{BL}{RD}$

BL 4.33

BD 3.68

BW 3.29

WL 25.96

TL 7.11

Tar 19.52

wt toe 10.06

hollow w/c car 11.69

10's just out, tail not fully preened  
back  $\frac{1}{3}$  out belly  $\frac{1}{3}$  out

sternal fat

wt 15.0 g

3rd 1431-14519  $\frac{BL}{RD}$

BL 4.72

BW 3.71

BD 3.61

WL 29.08

TL 7.70

Tar 18.07

wt toe 16.77

hollow w/c car 11.43

wt 15.25



Smith J  
1989

# Birdy Catalog

23

Russell Funes. 2 mi NW Lafayette, Contra Costa Co., Calif 1300ft  
29 April nestlings of <sup>PK/FW</sup> <sup>BL/PK</sup>

1431-1452 (PK/PK)

bill length 4.46

bill depth 3.08

bill width 3.30

wing length 24.68

tail length 4.07

Tarsus 17.17

mid toe 19.86

hallux w/claw 11.75

fat sternum

wt 19.5

adult (♂ just pin feathers) back postauricular, downy head, belly,  $\frac{1}{2}$  back partial downy wing

remarks

1431-14522 PK/PK

bill length 4.05

bill depth 3.39

bill width 3.25

wing length 24.23

mid toe 16.66

Tarsus 17.06

fat sternum adpressed

hallux w/claw 10.15

molt same as 1st

wt 13.5

remarks

2 May 2031 - 08935 ♂ FD/FW BL/PK

bill length 8.87 bill depth 5.51

bill width 4.73 wing length 60.80

tail length 61.40 Tarsus 17.37

mid toe 17.62

hallux w/claw 13.49

molt tail (gotten 3 out of 5 feathers)  
still

brood patch

cloaca 8.65 x 6.97 swollen

age

wt 18.5g

fat much here; strong

remarks



uth, J  
1939

Bandy Catalog

24

Russell Ice Res., 2 mi. NW Lafayette, Comte Co. Col. 1300 ft.

4 May

2031-08936 ♀ PK/FW BK/RD

Bell length 8.80

Bell depth 5.11

Bell width 4.51

wing length 53.46

tail length 54.19

tarsus 18.34

midtor 19.05

hallux w/claw 13.57

molts no

spur

broodpatch yes

claw 4.60 x 3.92

eye

wt 18.58

fat no

remarks

Nestling of pair S of FW/R

nestling 1-2031-8937 <sup>ju</sup> <sub>fw</sub> <sup>6.6</sup> <sub>RD</sub>

nestling 2-2031-8939 <sup>ju</sup> <sub>fw</sub> <sup>RD</sup> <sub>wh</sub>

Bell length 4.72

~~Bell depth~~ 4.26

Bell depth 3.37

3.44

Bell width 4.23

3.18

wing length 26.52

26.17

Tail length 4.27

3.70

Tarsus 16.79

17.43

midtor 19.65

17.34

hallux/claw 11.13

11.06  
same molt

molts 3.68/4.25 Back crossed, head down, Pact on wing

Fat stern 3.72/4.78 belly

stern

remarks

wt 15.0 g

14.0 g



Sept 18  
1989

Bandy Catalog

25

~~Bassett Reservoir, NW Lafayette, Costa Mesa, Calif 2300ft~~

4 May	nestling	3-2031-08938	♀ FW	RK	nestling	4	2031-08940 ♀ FW wh
	Bell length	4.72				4.55	OR
	Bell depth	3.93				3.57	
	Bell width	4.04				3.57	
	wing	27.08				25.58	
	tail length	3.52				2.50	
	tarsus	16.06				15.59	
	metatarsus	20.05				20.28	
	hallux	12.23				11.76	
	right same as above					same	
	fat sternum adjacent					some	
	wt	14.5g				12.5g	
	Remarks						

2031-08941 ♀ FW PKYC

Bell length 9.05

Bell depth 5.72

Bell width 4.40

wing 55.43

tail length 52.81

tarsus 18.59 19.14

metatarsus 17.44

hallux whlwh 14.04

right no/

blood patch yes

skull.

cloacal 2.47 x 2.98

fat somewhat scarce

ax

Remarks

wt



Sutro D  
1939

Birds Catalog

26

Russell Free Res., 2 mi N W Lafayette, Contra Costa Co., Calif. 1300 ft

7 May

2031-08942 ♂ <sup>GR</sup> FW <sup>RD</sup> <sup>BT</sup> / tch

Bill length ~~9.2~~ 8.87

Bill <sup>depth</sup> ~~width~~ 5.64

Bill depth ~~width~~ 4.52

wing length 60.18

Tail length 59.97

Tarsus 19.62

Middle toe 17.15

Hallux w/ claw 14.06

Molt no

Strewn

Brood patch no

Cloacal 6.64 x 6.29

Age

WT 20.0g

fat Sternal

Remarks

2031-08943 ♀ <sup>GR</sup> FW <sup>RD</sup> <sup>RD</sup> <sup>GR</sup>

Bill length 8.47

Bill depth 5.58

Bill width 4.79

wing length 55.35

Tail length 54.89

Tarsus 18.35

Middle toe 16.39

Hallux w/ claw 13.35

Molt

Strewn

Brood patch yes

Cloacal 2.14 x 3.45

Age

Very withdrawn

fat Sternal some

WT

Remarks



March 19

1989

## Banded Catalog

27

Russell Ave lot, 2 mi NW Lafayette, Contra Costa Co, Calif 1300  
 5 May 2031-08944 ♂ FW/YL ~~OR~~ ♂/wh

Bill length 9.34

Bill depth 5.82

Bill width 4.54

wry length 60.81

tail length 61.33

tarsus 16.87

mid toe 19.75

hallux claw 13.64

molt no

stool

breast patch no

claw 7.86 x 4.85

age

wt 20.25g

fwt

remarks) tarsus l.t. colored but toes dark and  
armored looking

	nestling or 2031-08945	$\frac{RD}{BL}$ ad	$\frac{FW}{BL}$ C	$\frac{BK}{TC}$	only
Banded	$\frac{YL}{BK}$	$\frac{46}{BK}$	$\frac{GR}{BL}$		$\frac{47}{BK}$ OR wh
Bill length	4.16	4.24			3.79
Bill depth	3.54	3.62			2.92
Bill width	3.14	3.39			3.08
wry length	27.24	24.96			22.11
tail length	3.80	2.85			1.13
tarsus	17.50	16.85	Heading		15.40
mid toe	19.37	19.04			18.00
hallux claw	11.80	11.30			10.64
fwt	Much sternal air force	Same			less slanted than less (five than others)
wt	13.0g	13.75			12.0g
remarks		5 <sup>10</sup> 's just out of sheath			no 10's out of sheath
molt	1 <sup>0</sup> 's not out open, back 3.01/5.05, belly 3.35/4.05, 2 <sup>0</sup> 's just out of 2 downy head				



Smith J  
1989

Bandy Catalog

28

~~Soxhee Creek Field Station, 3 mi NW Hotart Mills, Nevada Co., Calif 6300's~~

11 May 2031-08948 ♀ ad <sup>RD</sup> <sub>FW</sub> <sup>wh</sup> <sub>OR</sub>

Bill length 8.91

Bill depth 6.36

Bill width 4.72

wing length 66.03

tail length 66.39

Tarsus 19.10

mid toe 18.36

hallux w/ claw 14.00

molt

fat some sternal at fore

Broodpatch yes elevation

chacal protuber 4.49 x 2.96

age

remarks stomach seemed distended  
perhaps with an egg.

skull

wt 25.0 g

2031-08949 ♀ ad ~~♂~~ <sup>BL/FW</sup> ~~♂~~ <sup>GR/OR</sup>

Bill length 8.62

Bill depth 5.86

Bill width 5.14

wing length 61.56

tail length 60.88

tarsus 19.10

mid toe 17.65

hallux w/ claw 13.55

molt

fat some sternal

Broodpatch yes, edematous

dorsa 5.55 x 1.91

age

wt 24.0 g

skull

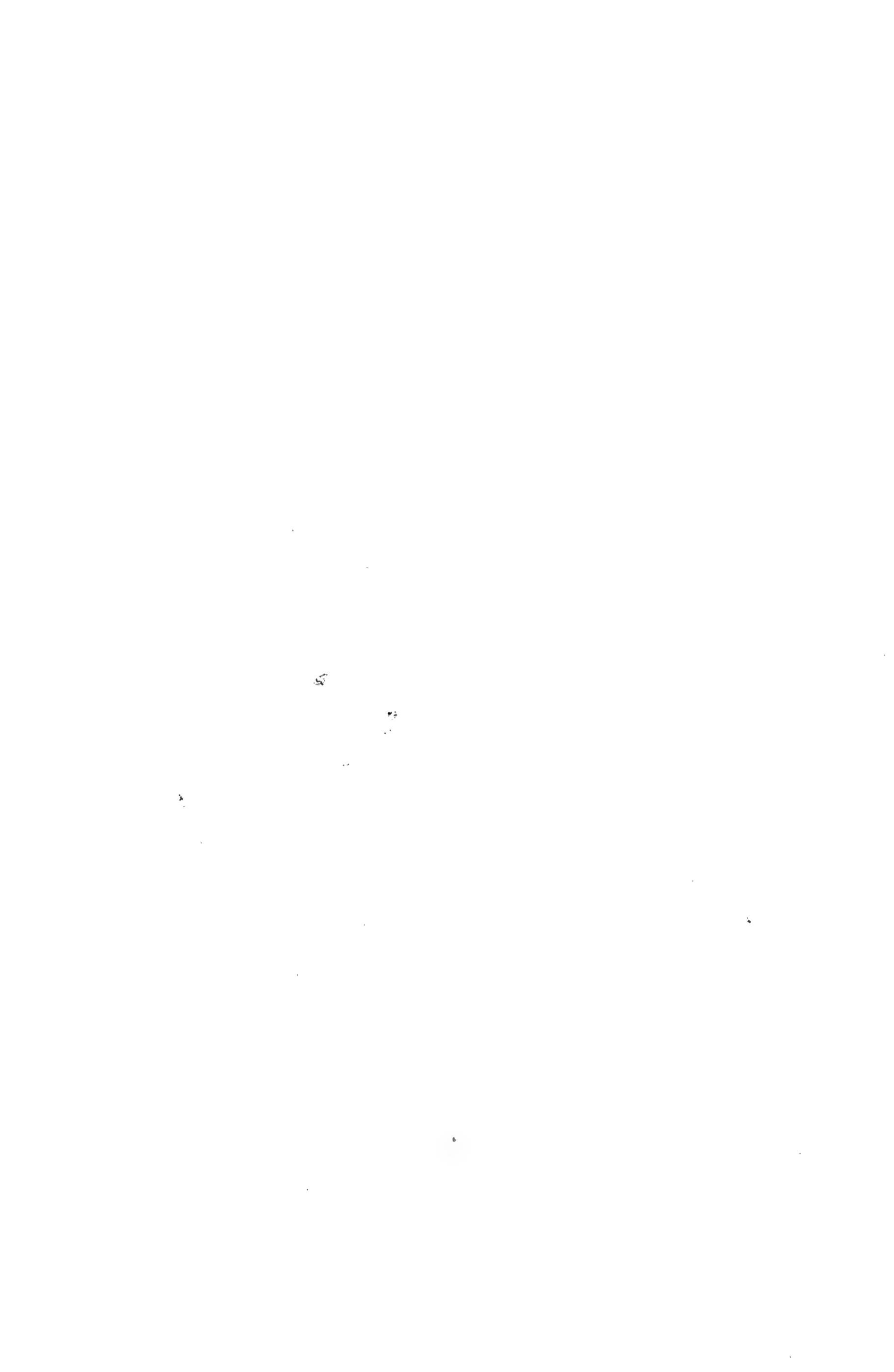
remarks tail worn

belly distended

16 May ~~Ranell Sun Res., 2 mi NW Lafayette, Contra Costa Co., Calif. 1300ft~~

2031-08950 nestly of <sup>at 150</sup> see pg 90

2031-08951 nestly of <sup>DF/FW</sup> see pg 90



uth. J  
1989

Banding catalog

29

Sayher Creek Field Station

21 May 2031-08952 ♀  $\frac{0}{4} \text{ yr}$   $\frac{\text{RD}}{\text{FW}}$  mate of 81% wh  $\frac{\text{RD}}{\text{FW}}$  ♂  
Bill length 8.95 Bill depth 6.10 —  
Bill width 4.63 wing length 62.29  
tail length 67.55 tarsus 18.25  
nud toe 21.90 hallux w/claw 14.41  
Molt tail 1/4 of feathers outside right 2nd & 3rd coverts faded yes, wrinkled  
age knee ~~8~~ cloaca 4.31 x 2.20  
fat some fine remarks mid toe rt leg has  
wt 22.58 straight "can" at junction of nail  
with bone

2031-08953 ♀  $\frac{4}{4} \text{ yr}$   $\frac{\text{PK}}{\text{RD}}$

Bill length 8.82 Bill depth 6.19  
Bill width 4.65 wing length 62.04  
tail length 66.58 tarsus 17.24  
nud toe 19.92 hallux w/claw 14.40  
molt no Brood patch yes, wrinkled red  
age knee  
fat much fine, some skeletal cloaca 3.47 x 2.15  
wt 22.0 g remarks



June 1989

30

Sayker Creek

26 May 2031-08954 ♀

BL BK wh/fw

Bell length 8.89

depth 5.44

width 4.98

avg length 60.89

tail length 61.45

tarsus 18.23

nudibl 18.81

hallux w/claw 13.14

snout no

froopatch yes

ax

skull

fat sheet func

cloaca 3.60 x 3.60

~~head~~ tswt 19.08

remarks nail

on 2nd toe of left foot missy also missy  
on rt foot

1 June 2031-08955 imm ♂/fw YL/BK / 2031-08956  
~~♂/fw~~ RD/wh

Bell length 4.02

4.61

depth 3.27

3.30

width 3.52

3.37

hl length 21.16

23.41

tail length 1.02

1.85

tarsus 13.86

16.58

nudibl 17.89

18.83

hallux w/claw 9.76

11.14

snout 1<sup>0</sup> 3<sup>0</sup> not opened, 1.84/4.81, 1.83/<sup>6</sup>09

1<sup>0</sup> not open, Back  $\frac{3.18}{5.96}$ , Red,  $\frac{2.43}{5.15}$  head down

age

arms, fore, stern,

fat some arms adfunc

$4.34 \times 1.83$

cloaca 3.36 x 2.14

wt 11.50 g

14.08

Remarks in nest of BL/fw 6R/or ad YL/BK, eggs shot

eyes open



Suth, J  
1981

Bunting Catalog

31

Sochi

1 June 2031-08957 mm GR/FFW + FW  
 Bill length 3.56 depth 2.71  
 width 2.99 wing length 19.91  
 tail length 1.00 tarsus 14.55  
 mid toe 17.08 hallux w/claw 9.70  
 molt 10's robust, Bacl 1.03/5.08 belly 0.59/2.00  
 age

fat face, stern, belly - some  
 down 4.10 x 2.04 wt 12.08

remarks ♀ sooty, eyes open. Nestling of "wly/fw"  
 Russell Granger.

2031-089 - Nestling of YFW's

	581 yr	59 yr	60 yr	61 yr
Bill length	4.49	3.82	4.59	4.51
depth	3.74	3.72	3.71	3.86
width	3.45	3.13	3.55	3.63
wing length	31.14	25.96	28.90	30.64
tail length	5.71	3.73	4.92	5.82
tarsus	18.09	16.53	17.79	17.47
mid toe	19.55	18.44	19.15	21.17
hallux+down	12.31	11.36	12.94	13.04
molt	10.3.95/21.51 3rd BA 6.2/12.03 BC	3.70/17.42	5.05/21.65	5.60/21.46

RTeg, marked

age			
fat	face, arms, stern	more fat stern much face	much face
cloaca	3.37 x 1.61	4.29 x 1.79	3.67 x 1.87
wt	17.08	14.04	16.09
remarks	eyes open	eyes open at north but eyes open	eyes open, top greenish blue



Smith, J.  
1989

Bandy Catalog

32

Sagehen Creek Field Station

1 June 2031-03962 ad GK, nestling <sup>FW</sup> <sub>6.02</sub> <sup>RW</sup> <sub>7.02</sub> Lek's nest  
part of transfer from BY/Fw

Bill length 4.42	depth 3.62
width 3.50	wing length 22.67
Tail length 2.20	tarsus 15.28
mid toe 17.66	hallux w claw 11.59
molt 1 <sup>st</sup> not out, Back <sup>3.58</sup> <sub>6.58</sub>	belly <sup>1.19</sup> <sub>4.46</sub>
age	
Cloaca 4.49 x 2.36	wt 15.0g
remarks eyes open, but droopy	

2031-03963 ♀ <sup>4<sup>th</sup>/wh OR FW, banded 50g</sup> <sub>7.02</sub> GR/EG  
Bill length 8.62 depth 5.49  
width 4.82 wing length 56.51  
tail length 59.70 tarsus 17.79  
mid toe ~~17.79~~ 20.33 hallux w claw 14.28  
molt rt center <sup>5</sup> k out Good patch yes, wrinkled  
age cloaca 4.33 x 2.63  
wt 21.25 remarks  
fat - somewhat



Sept. 8  
1989

Baird's Catalog

33

Sapkin Creek Field Station 3 mi. NW Hobart Mills, Nevada Co., Calif (3500 ft)

2 June 2031 - 08964 ♂  $\frac{1}{2}$  OR/FW, came onto ♂ FW's  
territory when male got captured and ♀ was singing  
Bill length 8.74 depth 6.18  
width 5.01 wing length 6.62-9.2  
tail length 69.40 tarsus 18.34  
rustica 21.35 hallux w/claw 14.86  
molt no. wing patch no.  
cloaca 8.02 x 7.11 wt 22.25 g  
remarks left wing has something in it  
mt fence fat

10 June 4 nestlings at unmarked pair

" June 4 nestling ♀  $\frac{1}{2}$  OR/FW ♀

	2031-08965 BK OR/FW	2031-08966 BK OR/FW	$\frac{1}{2}$ OR/FW	BL OR/EW
--	---------------------	---------------------	---------------------	----------

Belly t.	4.13	4.35	4.40	4.39
depth	2.98	3.44	3.71	3.30
width	3.50	2.97	3.49	3.27
wing t.	25.99	22.18	25.52	25.66
tail length	3.26	not on t.	2.80	2.31
tarsus	17.42	15.67	14.76	18.10
rustica	19.80	17.80	19.56	18.75
hallux w/claw	11.41	11.51	11.31	11.04
molt	<sup>l.24</sup> <sup>3rd l. 2.6, back 6.89</sup> <sup>rusty 2.99</sup>	<sup>2.47</sup> <sup>0</sup> <sup>11.06, 3.18, 4.37</sup>	<sup>0</sup> <sup>13.74</sup> <sup>4.58</sup>	<sup>1.35</sup> <sup>Y.19</sup> <sup>1.55</sup>
fat	much/fusc, sternally	some	some	some/some
wt	16.50g	14.50g	16.0g	16.50
remarks	eye open, but droopy	same	same	same



Smith, J  
1939

Banding Catalog

34

Hunziker Ranch, 2 mi. NW Lodi, Contra Costa Co., Calif 1300ft

30 June 2031-08968 young of year unknown parents. Bait trapped near nestbox, w. claw clung.

BK/FW  $\frac{4}{5}$   
WR

Belly length 8.75

depth 5.76

width 5.10

wing length 59.07

tarsus length 60.35

tarsus 18.53

mid toe 18.62

hallux w/claw 14.15

molt no

feodpatch? see remarks

age fledgling

skull

fat much fat at shoulder claws 3.53 x 2.98

wt 19.0 g

remarks, belly bare, yellow at tail margin

8 July

Saxchum Creek Field Station, 3 mi NW Hobart Mills, CA 6300ft

Nevada Co.

# Lt by FW # 2031-08990 Left Red / Fl. # 2031-08989 Red

Belly length

5.49

5.08

depth

4.45

3.71

width

4.32

4.16

wing length

35.56

33.19

tarsus length

10.60

5.86

tarsus

19.45

17.57

mid toe

19.89

21.54

hallux w/claw

13.45  $\frac{7.81}{24.82}$

12.99

molt

3rd 1<sup>o</sup>  $\frac{7.87}{24.82}$  back  $\frac{7.87}{14.50}$  belly  $\frac{8.97}{13.30}$

$3.95/20.32, \frac{3.26}{10.04}, \frac{3.96}{18.90}$

age

nestling

feet

much fat at shoulders

some

cloves

6.57 + 5.07

7.27 + 4.26

wt

16.50g

remarks



Smith, J

35

## Band Catalog

Russell Tree Res., 2 mi NW Lafayette, Contra Costa Co., Calif 1300 ft

23 July

2031-08970

FW/BK

BC/TB

ad.

Bill lg th 9.40

depth 5.83

width 4.90

wng lg th 58.31

tail length 50.01\*

tarsus 17.00

mid toe 18.54

hallux w/claw 15.56

molt 1st 510's, 5 mispin, only left tail feather off

broodpatch no

head

head

wing ad

belly ad

back ad

rust

foot measure

cloacae 3.99 x 3.25

wt 21.05

remarks

2031-08971 fledgling FW/YL GY/RC

Bill lg th 8.75

depth 5.72

width 5.16

wng lg th 61.52

Tail lg 16.05

tarsus 18.15

mid toe 20.93

hallux w/claw

molt <sup>wing coverts</sup> Tail, belly, molt, back

broodpatch

foot measure

cloacae 3.10 x 2.64

wt 21.05

remarks

1 August

2031-08972

FW/BK

BC/BR

Bill lg th 8.41

depth 5.74

width 4.88

wng lg th 61.82\*

tail lg th 61.04\*

tarsus 18.28

mid toe 19.36

hallux w/claw 14.66

molt last 1<sup>o</sup> just in sheath, tail, wing coverts, ear coverts, head, back, belly

broodpatch no

cloacae 2.68 x 2.68

foot set. force

wt 21.05

remarks caught in Hustle patch sad bag

$\omega^{\alpha}$

Sept 6/19  
1989

Baird's curlew

36

Sayler

5 Aug

FW/~~RD~~ RD/X 2031 - 08969 fledgling ♂ reared by FW/R

Bill length 4.96 depth 3.56

width 3.31 wing length 34.06

tail length  $\frac{0.71}{7.29}$  tarsus 17.90

mid fore 20.08 hallux w/claw 12.73

wt 17.50 gms fat much fine

wt 17.50 gms remarks

Copy of wh/FW R/PK ♂'s young

2031-08973 / wh

Bill length 4.58 depth 3.38

width 3.15 wing length 27.96

tail length  $\frac{0}{5.26}$  tarsus 18.88

mid fore 19.63 hallux w/claw 12.59

wt  $\frac{2.94}{17.32}, \frac{4.22}{9.25}, \frac{3.92}{7.44}$  fat much fine

wt 18.50 gms remarks

2031-08976 / wh

Bill length 4.53 depth 3.55

width 3.34 wing length 24.47

tail length 3.97 tarsus 14.83

mid fore 19.93 hallux w/claw 10.84

wt  $\frac{0}{14.93}, \frac{1.77}{6.97}$  fat much fine

wt 14.00 gms remarks



Suth, J  
1959

Banding Catalog

37

Russell

23 Aug 2031-08977 ♂/FW ♂/BK ♀?

Bill length 8.35 depth 5.44  
width 5.08 wing length 56.97

Tail length 62.65 Tarsus 17.53

Middle toe 18.98 hallux w claw 13.29

cloaca no ft record,

wt 20.00 remarks

no fat



J. I. Smith

1988

Journal

Calif: Contra Costa Co.  
Sagehen Creek Field Station  
and Penny Pines, Nevada Co.  
Point Reyes Field Station, Marin Co.  
Alameda Co.

New Mexico: Zuni Indian Reservation



WTH, Jr  
1938

Journal  
THE UNIVERSITY OF OKLAHOMA  
MUSEUM OF SCIENCE AND HISTORY

San Pablo Dam, Contra Costa Co., California

14 May 8:17 am. Going out to San Pablo Dam to look for Song Sparrow nests.

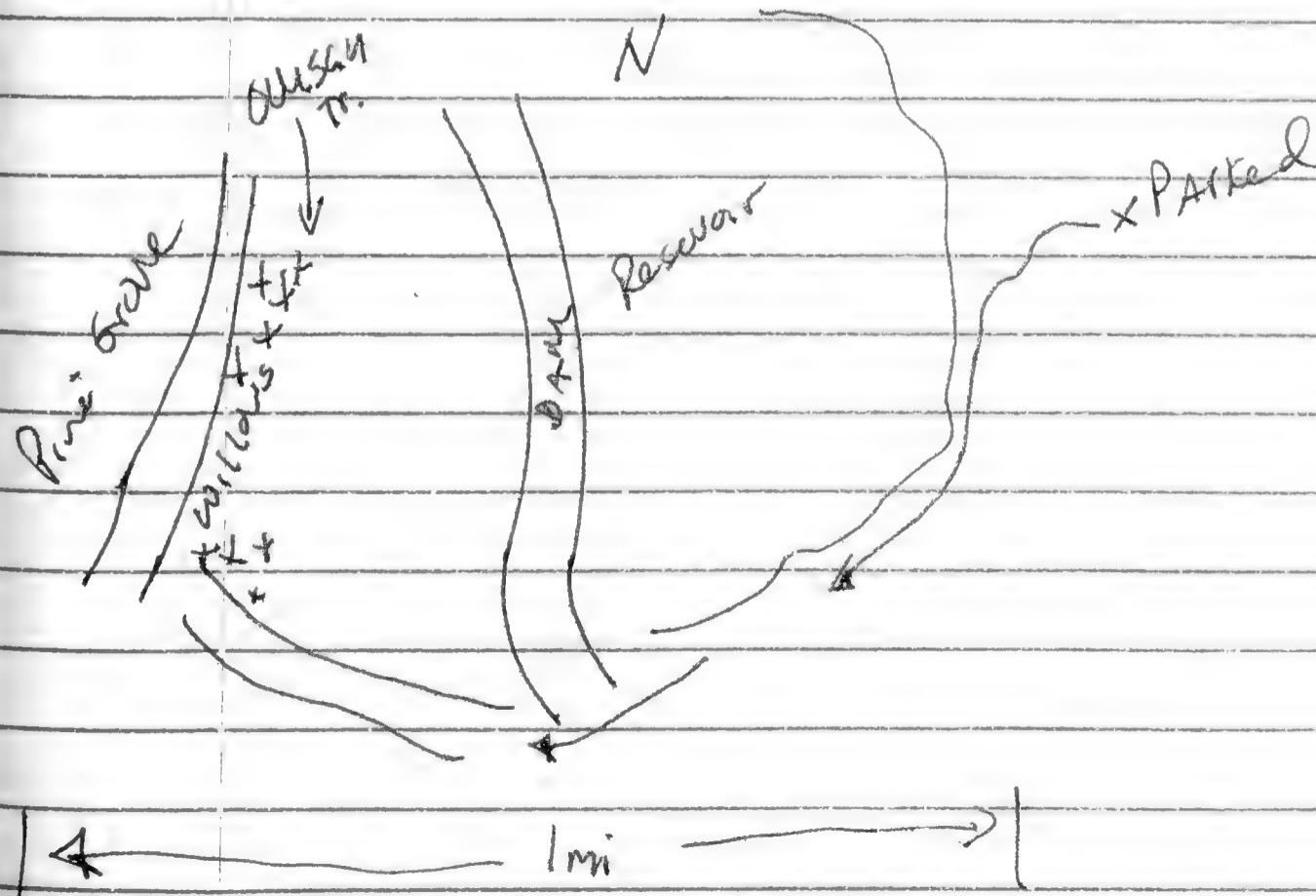
Route: Grizzly Peak Blvd to Wild Cat Canyon to San Pablo Dam Road.

Weather - Partly Cloudy ~60°F, breezy

Mileage begin - 59858.6 to San Pablo Dam

Route: Continued to Grizzly Peak to El Tovarine, but El Tovarine is closed 1/2 mile. So went Supply Trail to South Park Dr to Wildcat Canyon to Bear Creek Road parked at Briones Stage Park overlook to look for Sparrows. Vegetation, area is grasses (1½' high); was found, - some tree species planted thickly (less than 1' apart). To the south in the pines & bear purple Finch

9:30 am set out, SW toward Reservoir. All trees live the edge and Tufts are thick near the tail head of the reservoir





mtk, J  
1988

Journal  
THE UNIVERSITY OF OKLAHOMA  
MUSEUM OF SCIENCE AND HISTORY

2

San Pablo Dam, Contra Costa Co. California

24 May I walked along the south end of the reservoir  
not too much likely song sparrow habitat.  
Now head N from parking lot  
Bachman's, French Broom, Madrone line the N side  
more thickly (cared than the S. May quail (10's)  
Wrentz ad RS Towhees. Many Flavrs  
left creek over to stony ground for Birches  
outlook, drove S along Bear Creek Road 42  
turned west on unnamed road to Oursan tr. and  
Hampton trail. Many Yellow lins in draw also  
Oak ad Pine, mustard ad grasses, French Broom  
75 yds from the end of the pavement NW on Oursan  
tr. have seen 2 song sparrows. They are in the willows  
at times, Bachman's lining the creek on the S side of  
the pavement. Down up ad RWBB plentiful at 10:50 am.  
Saw fledgling song sparrows - yellow lip edges, but not red  
spur in association with calily adult. Heard at least  
1000+ song sparrows singing in 50yds along the creek.  
I ventined out of the creek bank and found a  
huge bush of poison oak. Unfortunately, I didn't realize  
it until after I had crawled around in it! Found  
no nests, back in Oakland at 1:30 pm. Bright  
Sunny ad breezy ~65°F.

Species List

Pied-billed Grebe	Birches Ros.	1
Canada Geese	"	3
California Quail	Oak Woodland	8
Golden Eagle		1
Red-tailed Hawk		1
Anna's Hummingbird		2



uth, 8  
1938

Journal

THE UNIVERSITY OF OKLAHOMA  
MUSEUM OF SCIENCE AND HISTORY

3

San Pablo Dam, Contra Costa Co., California

24 May	Turkey Vulture	2
	Downy Woodpecker	♂ 1 ad, 1 juv
	Black Phoebe	1
	Ash-throated Flycatcher	1 sp. adct
	Wrentit	HO
	Brown Creeper	HO
	Cliff Swallow	~50
	Chestnut-backed Chickadee	2
	Rufous-sided Towhee	1
	Purple Finch	HO
	Home Finch	~50
	Brown Towhee	3
	Dark-eyed Junco	2
	Red-winged Blackbird	20

25 May

Oursan Trail San Pablo Dam, Contra Costa Co., California

8:53 am, weather overcast, breezy and cool 50°F

Route: Oursan trail, Grizzly Peak to South Park

Drove to Wildcat Canyon to Sea Creek road.

Purpose - search for Say Sparrow nests from 0-4 ft up usually associated with weeds and grasses or twigs fork (Colin Harrison).

Mileage 59897.1 - 59933.4

Walked along the creek running NE at Oursan trail. Saw 5 Say Sparrows, calling in vegetation along the banks. Kicked up a couple away from the creek, I presume they were feeding on grass seed or in the vetch. Found no nest. Flowed through the tules but only found white-cocoh. I think they nest in the willows not in Tules.



March  
1993

Journal

4

25 May

Oursan Trail, San Pablo Dam, Contra Costa Co., Calif.  
but couldn't find any. I am going to take ~~Contra~~ <sup>(N)</sup> San Pablo road over to the big reservoir to see if there are areas along streams less filled with vegetation, maybe nest finding easier. Back in Berkeley 12:30pm, didn't find much along San Pablo Dam Rd - very public ad lot of fifty

Oursan Trail, San Pablo Dam, Contra Costa Co., Calif.

6 June

7:54am, weather is overcast and cool. Purpose is to search in the willows for nests. Pam Williams thinks the nests are easier to see when looking up but well hidden from above.  
mileage 60112.8 to 60135.5

Appro Route - Goodyear Centennial to Hwy 24 to Hwy 12 to Shasta to Wildcat to Bear Creek Road ~.7 mile on Bear Creek to left turn past Horse Ranch to Oursan Trail. Overcast ~55°F drizzling lightly.

8:57am Rainy quite hard came in from the west. Birds very quiet only two singing down near sand bagged area of coyote brush at Eddy Creek. Since it is rainy I will drive around and do some exploring. North down Oursan trail .5 mile around a bend to the left come up on a prairie area with coyote brush on N facing slope. The road dead ends .1 mile further now.

2nd Rt off of (N) Oursan Trail dead ends on E side of gully ~.15 mile.

Oursan Trail

→ N



June, 1938

Journal

5

Ottoman Trail, Garfield Dam, Contra Costa Co., California

6 June

1 mile S of Bear Creek Ranch there is an empty way or SE side of road w. if explore. It runs parallel to what I presume is Bear Creek it is just North (50 yds) of the deeps of the creek.

Oaks; Bachman are apparent. 10:35 AM rain has stopped ~ 30 min ago. Sun is going out & clouds intermittently. I walked S along a dirt road until I came to a fenced in facility (~ 1/2 mile). I went E around it and got to a E bound road which led to a trail 25 ft away from S end of facility which led to a creek. I walked along the creek bank ~ 50 or 60 sqy sparsaws. Numerous ~~For~~ RS Towhees (~ 20). There are willows along the streambank it is very hard going because of this Rose bush - like prickly vine which can have 1/2" diameter. The creek is full of trash and debris & walked N along the streambed ~ 50 yds until it got too deep to walk in (1 1/2 - 2'). On the W side of the bank the stream often makes oxbows and I climbed amongst the ivy on the bank and scared up a RS Towhee & thought at night have been nesting but I could not locate a nest. I looked under the ivy in the dry leaf litter but nothing. The Towhee did a few cat calls (Whee). 11:21 In a Willow on SW side of dirt road a nest!



1908

# Journal

6

~~Bear Creek Rd. San Pablo Dam, Contra Costa Co. (calif)~~

6 June

~~SW of 2nd gate on the Bear Creek entrance~~  
20 ft up in a willow. Dead grasses at 1.5' &  
willow branches day to outside 14" d. Ants  
flagged on opposite side of road near  
cement float. Heard a Black-headed Grosbeak  
possibly, heard Song Sparrows in distance  
but saw no activity at nest during 20 min. obs.

150 yds from Telephone pole 15090 Back in  
Berkeley 12:00 pm

7 June

.3 mile NE Bear Creek Road from Samm's Pablo, Contra Costa Co. (calif.)

7:24 am, route 24 to Claremont Ave to College to  
Highway to Cattinaria (60145.2 to 60161.6 )  
to Cowley Come Rd to Shasta to Wildcat Canyon to  
Bear Creek.

Overcast ~55°F, ground is very wet from hard  
rain yesterday. Chance of rain again today.  
Climbed up to the nest found yesterday - it is  
empty, looks like a start. Only bird very  
~~obvious~~ while it was eliciting were B-shits  
(15) but it doesn't look like a T.t. nest.  
too much dead grass not woven tightly.

.7 miles NE Bear Creek Rd from Samm's Pablo, Contra Costa Co., Calif.

This is at the head of Oursan Trail, gate is  
locked today so I have to walk in. 8:20 am  
sun is shining still rain is threatening. Red-virgs  
calling ("conchuras") from tile patch just S (50yds)



mtb, J  
1983

Journal

7

Fri 7 Jun Near Bear Creek Road from Laramie Park, Carter Co., Okla.

7 Jun

from gate. At the NE end of Oursan Draw found one adult, one juvenile and two unknown individuals flying low (2') off the ground near N bank in Tules and willows. Looked like juvenile was following around an adult. Flying very noisily. On Hayston Trail flagged a nest (probably last year's) at NE end of Draw. At Oursan found an abandoned grass nest deep in the middle of thick Tules. The nest was ~ 2' off the ground hung down a foot in a small willow (diameter 2"). Nest was old and worn but tightly woven with grasses; approximately 4" across.

7 June

Fri 7 Jun Near Bear Creek Road from Laramie Park, Carter Co., Okla.  
Mileage 60196.5 - 60224.9

Weather - few clouds ~ 50°F 6:30 am. Sun up.  
Stay for assistance in nest searching. Bright served hot coffee. Rattle Bennett to Oxford  
to <sup>Central</sup> ended to ~~South~~ fork to Wildcat Canyon to  
Bear Creek. Nest found in Blackberries near  
north East end of draw. It is abandoned  
it has dead curled up leaves in it. It is  
~ 1 foot off ground is made of dried grass  
cuz 4" diameter about 3" tall. Within  
3' of *Baccharis* and 10' of Poison Oak. 15'  
from water.



July, 1988

# Journal

8

7 mile NE Bear Creek Rd or Carino Rd, Contra Costa Co., Calif.

1 June

B<sup>2</sup>(?) singing near drain pipe (flaged) holds territory and wing fluttering with ♀(?). This is just W of area with Tules where I st went in. They are on N bank. Pam suggests mapping out pairs along the creek, territories will be small b/c of good cover. After observing for ~5 minutes the two individuals are fluttering a little chasing and both are singing  
9:11 60°F no singing along Hampton trail where they were singing on 7 Jun in W. wills along creek and in Tules. Very sunny now ad no singing on SW side of Oursan Bridge Trail. Ch-p note sounds like "Shweep" Pam says sounds wimpy. Heard in in lightly wooded willows at SE corner of Oursan Trail w/ wood chips near main gate

5 June 1988

Russell Tree Reservation, Elkhorn San Joaquin River  
Contra Costa Co. Calif 9:15 am 1300 ft

route - wild cat canyon to Bear Creek Road  
Go N on Bear Creek to Happy Valley Rd (3/4 mi E)  
just before hairpin turn it is on the left (N).  
met Frank Determan (Manager). Showed me hillside with Baccharis and willows where Lidicker did study. Have heard Song Sparrows, Calif. Quail, Wrentits, RSTowhees, Anna's Hummingbirds. 226 acres. Scrub Jay TV's. 10:30 am. Have been observing male singing for ~1 hr I am sitting in the shrubs by the side of the road he is calling

to see  
at  
for X  
254-3778



March 8

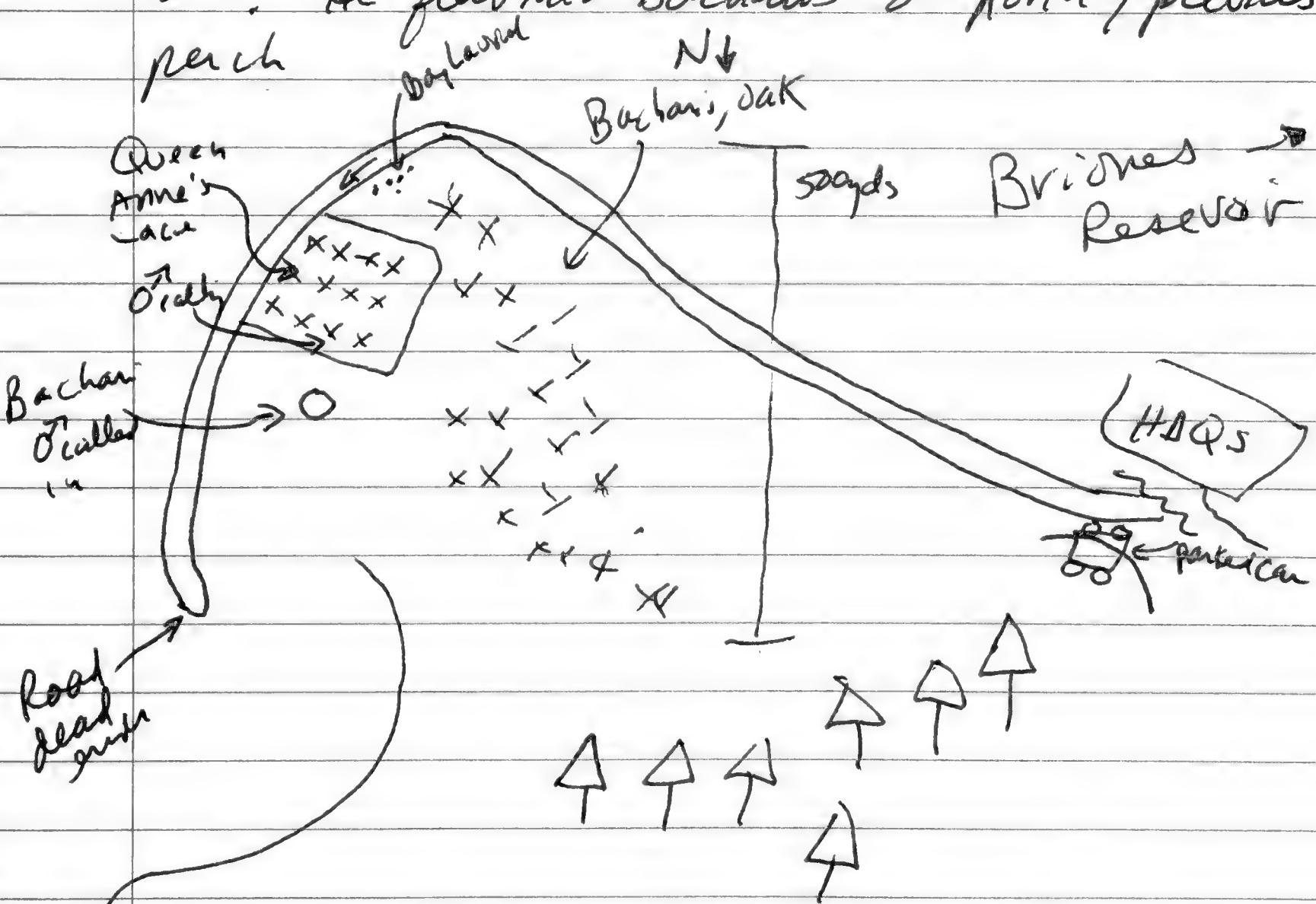
9

## Journal

15 June

Russell Tree Reserve, Contra Costa Co., CA 1300ft  
from the north edge of a  $25\text{ m}^2$  area of  
what look like Queen Anne's Lace. This  
perched ~ 4½' off the ground in a dead  
piece of vegetation. I have been listening for  
the ♀'s call but no luck. ♂ has made  
at least 2 distinct call one w/ 2 intro  
notes ad quite soft gurg call after ad one  
far more strident and loud w/ 4 intro notes  
w/ first 2 accelerating into closer spaced later

2. He flew into Bachman's 8' North of previous  
perch



Another good  
canyon for sparrow



11th, 8  
1933

# Journal

10

15 Jun

Russell Tree Reservation, Contra Costa Co., CA

male started back into Queen Anne's lace  
still on N edge of it. He called ~10-15 tries  
in Bachman's ad then started back to lace.

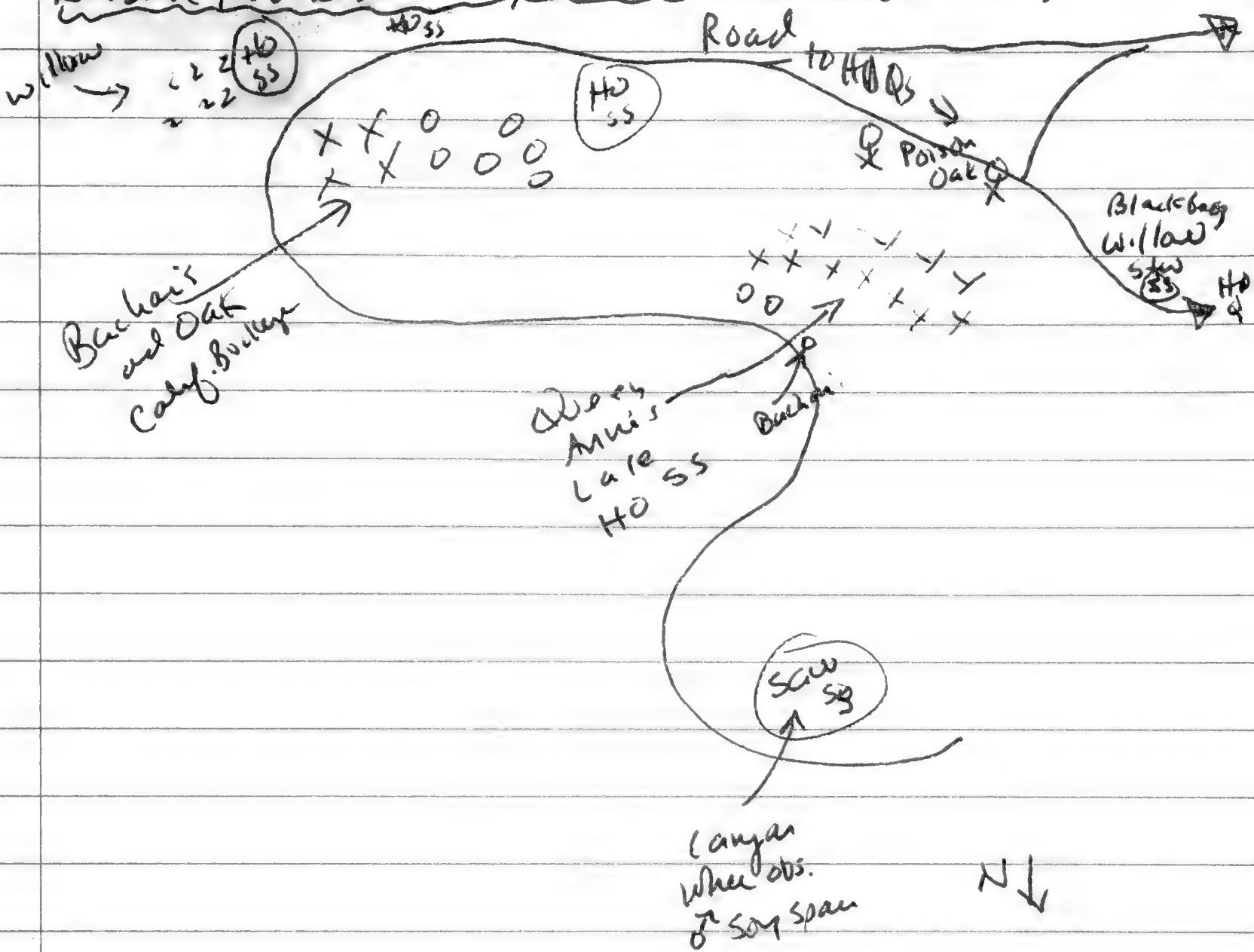
He can add a very long "Blurreeeee" onto the  
end of his song. Flew back to Bachman ~5  
feet in lace. Second call ~~went~~ started on  
higher pitch (~ $\frac{1}{3}$  higher). 10:49 am ♂ has stopped  
calling and is out of sight. I have seen 3 Bullock's  
orioles fly in the oaks on SW side of Ridge  
10' ad 2 ♀ or immns. Saw a Nutall's woodpecker  
at the observatory and down in canyon where ♂  
does on song sparrow. 10:56 male has song  
only 3 intro notes no full song. It seemed like  
he was about 10m NW of the Queen Anne's  
but have not spotted him. He just gave three  
more intro's 10:57. 10:58 ♂ gave clean call  
sounds like he is in Queen Anne's again, but can't  
see him, ♂ is singing 'every 10 seconds. These  
are typical calls with 3 intro notes, clean  
strident but no Blurred on end. 11:00 am  
will start climb down to ca. 16 Robins  
were in this canyon primarily in Oaks. Lots of  
Robin scolded not too much calling. ♂ SS was not  
in Queen Anne's lace rather 6' up in Bachman's  
Bush just N of lace, again. He is sitting on W edge of  
Dove on unprotected dead ground. Bay trees at  
S end of canyon on ridge near Dove are fruiting.



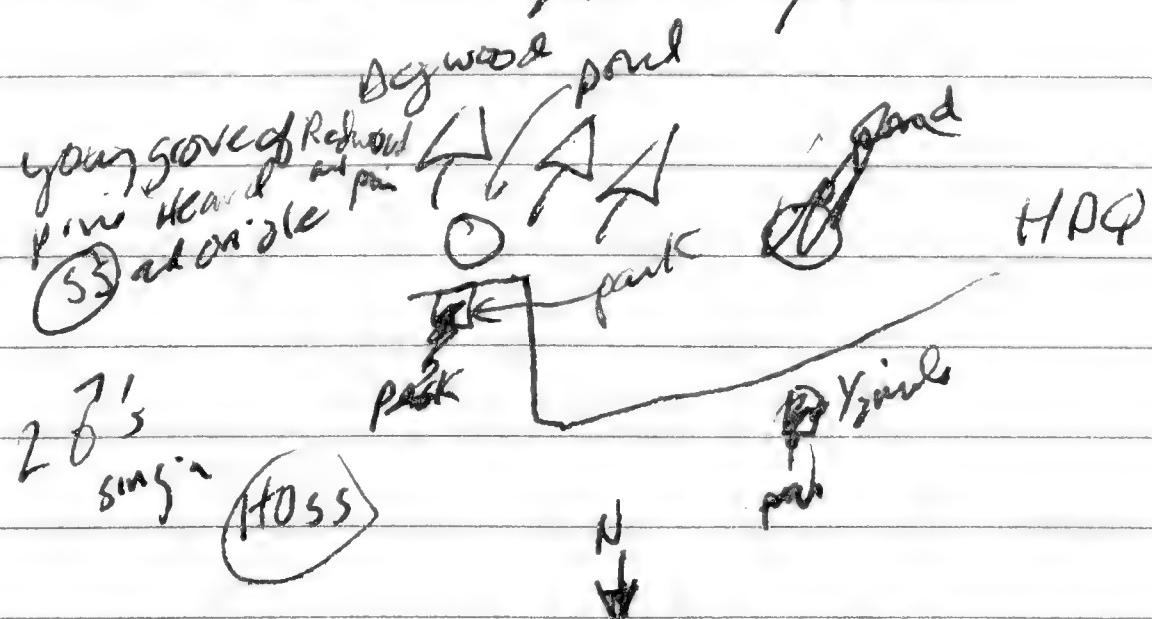
Smith, J

Journal  
2 mi NW Lafayette

11



At the Blackberry patch near the willows seemed  
to flesh up an index out of Blackberry.  
♂ still called from willow. Hunted just briefly  
but no luck and no agitated adults  
oriole sexenkron near early possibly food.





Smith, J.  
1938

Game

(2)

Russell Tree Reservation, Contra Costa Co., Calif.

15 June

Species List

Turkey Vultures	5	Spotted at observatory
Californian Quail	2	Heard ~12 more 2 feet away
Mourning Doves	3	
Allen's Hummingbird	2	
Nuttall's Woodpecker	2	
Tree Swallow	1	Observatory
Song Sparrow	10-20	
Stellar's Jay	5	
Plain Titmouse	1	
Chestnut-backed Chickadee	10's	
Robin	20	
Rufous-sided Towhee	10	Heard ~20 more
Brown Towhee	3	
Song Sparrow	5	Heard more
Northern Oriole	#	20 <sup>+</sup> absent unk.
House Finch	2	
Purple Finch	++	

17 June

574 Fairmount Oakland Contra Costa Co. Calif.

11:08 AM overcast, humid ~60°F leave for Sausalito

mileage 60390.4 take 80 E toward Tahoe

Then highway 89 N toward Sierraville ~8 miles

Just over Sierra Co. turn left before station

garage at crest of hill go 1.8 miles W. ph: 916-587-4830 for Thornton

60811.9



17th, J  
1938

Journal

3.5 mi NW Hobart Mills

13

17 June

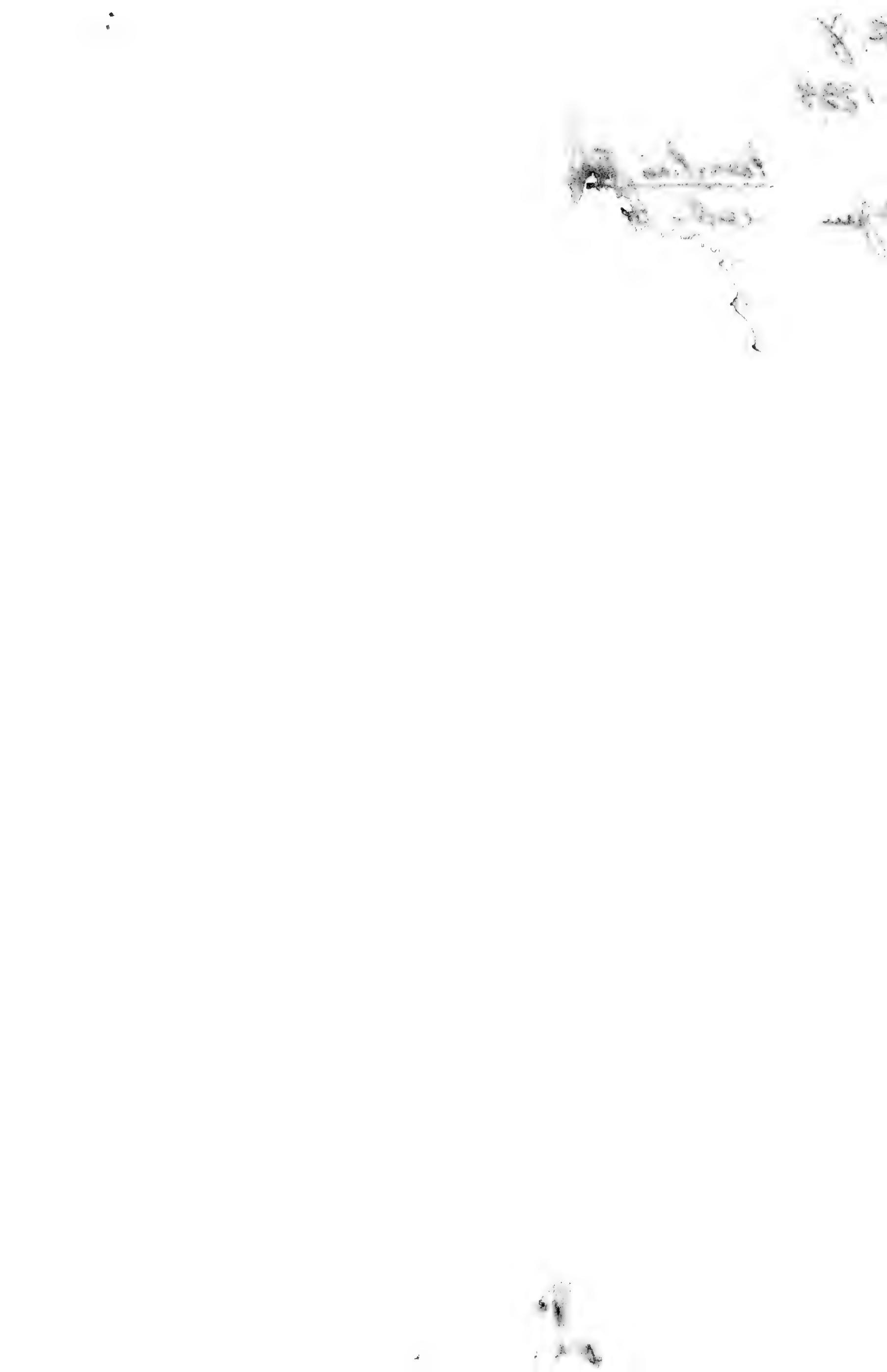
Sagehen Creek field station Sierra Co. Calif 6328 ft

Arrived at sagehen ~3:30 pm car was almost  
overheated as went over Donner Pass. The  
station is small and not so spectacular  
as Big Creek. It seems far more urban because  
everything and everyone are clustered around Joe's  
house. It is nice to have shower / bathroom  
and kitchen facilities but really no decent  
place to camp. As Jeff predicted there was  
a song Sparrow singing near the creek opposite  
from Joe's house. Asked Joe about Penny Pine  
area where Jeff camps. He said it is not  
allowed, I could get a ticket but he didn't  
care where I camped.

17 June

Penny Pine 1.5 mi S (1st ridge south of station) Nevada  
Co California 6300 ft.

5:00 pm This is an area that was burned  
(44,000 acres) in 1960. Some of the pines are over  
30-40 feet but just as many are very height. Sage  
and a big leafy shrub cabbage like plant covers the  
earth. The soil is red and dusty - very dry.  
1 mi from entry of Penny Pine & pulled over at head  
of small gash, milk at cheese. Heard a song sparrow  
calling infrequently from the creek 100 yds to N.  
Warily voice calling (sounds like "if you catch...  
will + squirt-ya" he is ~10' up in a pine. Another  
is away about 50 yds to N. Nuthatches probably



July 8  
1988

14

Perry Pines, Takeo Natl Forest (1.5 mi S Sycamore field Sta.) Nevada Co. Calif.  
<sup>6300ft</sup>

17 Jun red-breasted m. calling to the S ~100 yds.

In this bend in the River where Sycamores were spotted ♂ SS perched on a small willow ~ 10' x 10' foot bush. Heard "chisip" persistently ♀. Then spotted a youngster (?) making a wren-like "Wren" "wren" sound.

Flagged the willow w/ Chartreuse on its S side. 10m NE from that willow is another overhanging tree across. Near its base overhanging the creek sits a garter snake in what could be the entrance to a nest. I found a rock white wash ad 2 downy feathers w/ 1' of the snake.

Heard 2 individuals call from that bush as well. NO ♂ call just "chisip" ad "Wren" calls.

6:21 SS has been quiet since I left the bush w/ the snake while I was searching thru that bush I heard a ♂ call ad a lot

of chisipping. 60 yds W of last flag heard another

♂ singing; no sign of fledglings near Beaver dam

where I saw a Beaver swimming in i'q water

his head was partially under ad tail completely

bulk was visible above H<sub>2</sub>O ~ 2 1/2' from head

to tail tip. Heard high strident scream before

it sw to town, don't know what made the

noise. 7:16 pm much more singing than there was at 4:00 p.m. I've tagged another now, nest over this one is 25 m from open gate down Perry



17th, J.  
1958

Journal

15

Pine Penny) Tahoe Natl Forest, 1.5 mi S of Sagefield Sta. Nevada Co. CA  
6300ft

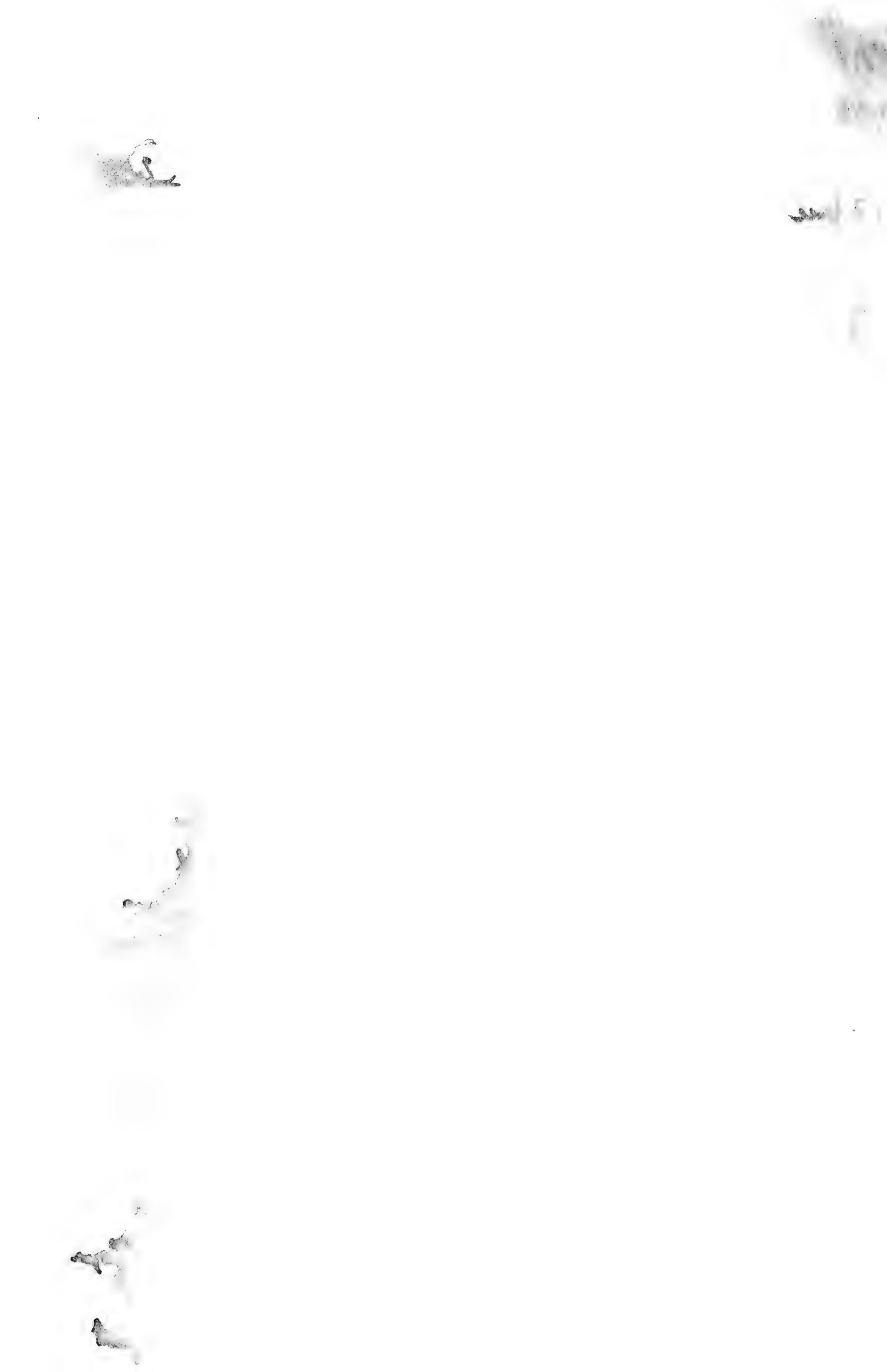
17 Jun pm drive. Saw Indiv foraging ad with food in mouth ~ 10m from the road in a pine (8') surrounded by willow. This indiv would fly to ground or dead strings and flit back fly into willows out of sight ~ 1' from dead strings. Heard poss beginning calls at this time. Also grances are flying around a fork in a willow another 10m further down stream won't investigate so it won't to disturb indus this late. Retracing my tracks I descended & drove down the Penny Pines road toward Sagebrush Creek 2 miles. 8:49 had dinner in the dining hall met Donna (5K, mi, long brown hair) and Britt (Plane glasses, long brown hair). Both are nice and Donna was helpful. Told me about Paul and his family studying Minkie Beavers. Have been hearing an ascending hooting - poss. W. Screech Owl? SS still singing. Owl(?) call is accelerately short hoots. I'm camping in the Volleyball court on the E end of compound in the meadow. The owl's hooty sounds a lot like Modo wings flapping as they come into roost.

Species List

California Quail 6

Willow Sparrow 1♂, 1♀ 1 cat sp. adt

Red-shafted Flicker 3 sex ad.



Wuth, J  
1998

Journal

16

Sagehen Creek Field Station (8 mi N of junction of hwy 89 and 30)

17 June Sierra Co. Calif

Red-breasted Nuthatch	HO	~6
Wrentz Vireo	6	pines
American Robin	25	very dark red
Western Tanager	20 <sup>1</sup>	Yukon (For. line)
Yellow Warbler	20?	
Song Sparrow	10	
Dark-eyed Junco	~10	

Beaver	1
Deer	1

18 June

Sagehen Creek Field Station, Sierra Co. Calif. 6328 ft.

6:28 am cross over the creek at the House over the river

100% of dining commons. Traveled W along the creek  
500 yds. Seen 3 pairs of song sparrows in willows  
within 10m from creek. Found a destroyed nest

~5' up in fork of a willow tree. It had grown  
lined up woven in with a red back. ~ 2-3" across.

and 3" deep. The squirrels here are gray, small  
(1 1/2' head to tail) with prominent ears. They have white  
stripes near eyes going toward the eye. They make a  
loud chattering call like a woodpecker but no pitch.

9:38 am I found a song sparrow nest! My  
first, AH! I'm not a complete failure.

The nest had 3 young, fat well-developed  
maybe 3 days old. Pin feathers not erupted.

The egg was white with a dark spot about a cm



with JG  
1986

Journal

17

Sycamore Creek Field Station, Sierra Co., California 6388

19 June

in diameter. I had come upon what I believe is the male about 1 hr ago. He was chipping on a fallen log across the stream. I noticed he had an insect in his bill so I decided to seek the cover of a small pine and observe him. Shortly thereafter I noticed another SS come out of a willow thicket about 8 fm long and 3 m wide. Both of these sparrows were flycatching over the creek. At one pt I observed the ♂ (?) rub the wings off of what could have been a dragon fly or rubber his bill against a dead log. The nest was found by watching the adults carry food to this willow clump. They were pretty sneaky. But it just came down to the fact that more often than not they would fly out of the willow and the flycatcher they would however spend a great deal of time chipping while they held food in their mouth. They would chip back and forth. Wilson's Warbler would fly into the willow and seemingly not be deterred by the sparrows. The nest was situated in a low fork (~1') of a willow that was 6' tall. The branches of the fork were 2" in diameter. The nest was surrounded by long dead grass (1') presumably as camouflage. As I approached this willow chipper the ♀ (?) flew off when I was ~3' from nest.



uth, J

18

1988

8 Jun

Sayre's Creek Field Station, Sierra Co., California <sup>6308</sup>

because of the behavior I knew I was close. And I picked around and sure enough there it was! ~~The nest~~ One of the nestlings raised its head as I pushed aside some of the branches to get at the nest. They did not make any typical sound. The parent chirped the whole time I was in the vicinity.

I stayed to rest, and it is my intent to collect these young many way back to camp as Ned suggested. I can in this way stimulate rearing and also get tissue for electros. The nest was within 2' of the creek on the South side. I didn't stay to measure this because I felt I had disturbed them enough. Tonight after I collect them I will do more ~~thorough~~ thorough inventory. 11:38 am birds are very quiet I walked to the w gate of the Sayre station following the creek. After I found an sparrow nest 10mts later I found a Robin nest with 4 young close to fledging.

The nest was in a small pine (~6' tall) <sup>it's parent</sup> about 4 feet off the ground. Made of grasses and mud. Newly feathers were almost fully emerged. It has cooed up considerably ~65°F very sunny, no clouds. 5:52 pm found a nest of a Mountain Chickadee, in a hollow pine tree hole is ~ 7'. (sp acc)



7/8  
1938

19

Sachsenweck Field Station, Sierra Co., California 6328 ft

10 Jun

6:41 pm observed 2 adults feeding a fledgling wren in the grass. They would always set off for the fledgling from the same willow bush which was clust' of grass. The area where the presumed fledgling was hiding was in tall grass (1-1½') ad 6' from willow.

8:03 pm dinner of frost, cream ad Calistoga. Ah, long day; feels good to have found some sparrows. The area W of the W gate of the station has numerous willow clays ad sparrows but it is far too populated by people to offer good area for nest manipulation. Concentrate in Piny Pine ad near the station will be best.

### Species List

William Sapsucker	5 ♂ 2 ♀
Red-breasted Sapsucker	1 ♂
Northern Flicker	2 ♂'
Hairy Woodpecker	2 ♂'
Anna's Hummingbird	2 ♂ 1 ♀
Dusky Flycatcher?	1? → Townsend's Solitaire?
Hammond's Flycatcher (?)	2
Western Flycatcher	1
Mountain Chickadee	2 sp. act
Red-breasted Nuthatch	No 3
American Robin	25
American Dipper	2 laid 1 juv



July, 8  
1988

# Journal

20

Saxher Creek Field Station, Sevier Co., California<sup>6325fe</sup>

8 June

Waxwing V, 100	20
Yellow Warbler	10
Wilson's Warbler	+ 50
Yellow-rumped Warbler	20*
Song Sparrow	30
Dark-eyed Juncos	30
Western Tanager	10* 2 (juv or ♀)
Cassin's Finch	10*

Dear

Penny Price & mining entrance which is 1.5 mi S of  
Saxher Creek Field Station, Nevada Co., California<sup>6300fe</sup>

19 June 7:00 AM went to West gate on Penny Price road to Saxher Creek. 3 song sparrows in vicinity will try to get some mending.

7:58 I just discovered that this SS pair is feeding a fledgling cowbird, without its tail it is still bigger than its parents! Spotted a mammal looking like a woodchuck but with 4" tail and golden fur like a raccoon.

9:37 am ♀ song sparrow observed feeding a fledgling with a half grown tail, wing appeared fully feathered Head had one downy feather sticking out but otherwise well-feathered. The fledgling was hunted down in some 12" grass the ♀ would fly to w/in 5' and would call "Bleep" and nestly would



June 18 1980

21

19 June

Penny Pines, 1.5 mi S of Safford Station, Nevada Co., Calif.  
4300 ft  
respond with a more lispy call. When ♀  
spotted me she gave a "sip or chisip." ♀  
would hop around about on a fallen log 1'  
off the ground away from nestly and the two would  
call back and forth. A male flew into a  
parch 15 m to the W of the fledgling and sang.  
Fledgling would call periodically even if ♀  
was not nearby. 10:18 Found another pair  
feeding a fledgling. Same behavior of parent coming  
into ~5' radius of young giving "bleeeeeee" call with  
nest fledgling responding, much more softly.  
Found a nest 6" off the ground in the far base  
fork of a willow. The willow is 2½' high.  
It is part of a long strip of willows along the SE  
bank of the creek. The strip is 15 m long and 2 m  
wide. I flagged the Emost part and also  
flagged the tallest branch of the willow clump where  
the nest is in addition I flagged the willow  
brush just NW of the nest. To find the nest go  
into the middle of the clump where there is a bare  
area and face E look at the base of the flagged  
willows on the Eastern edge. It is hard to see for  
most leaves better concealed from top than  
bottom. Hard to say how far down the creek  
but perhaps ½ mile from gate. As I approached  
the nest tree I saw something scurrying away like the  
♀ had done at the other nest perhaps this ♀ is afraid



uth, J  
1938

# Journal

22

Penny Prairie, 1.5 mi S Sawyer Cut Field Station, Nevada Co., CA  
<sup>6300 ft</sup>

19 June

to lay. Nest was 15' from water's edge. 11:16  
500 yds west of nest I ran into E edge of  
the field station. Plots of tagged plants and  
50 yds beyond <sup>w</sup> that the meadow where I  
set my tent. Area past that past west 250 yds  
E of the meadow not too much willow  
lots of pine and an outhouse-like structure.  
I figure with the sparrowns at Penny Prairie and the  
field station area I'll have plenty of sparrows!  
Can drive car .4 mile W past gate where  
parked car there is a 6' stretching barbed  
wire b/t 2 trees. The creek is near  
and the nest is w/in 150yds W of that area.  
Or 2.5 miles <sup>w</sup> from main entrance to Penny Prairie

## Species List

Starry Woodpecker	1 ♂ 1 unk sp-adult
Northen Flicker	2 unk
Red-breasted Nuthatch	HO 3
Brewer's Blackbird	1 ♂ 1 ♀
Brown-headed Cowbird	3 ♀ 6 ♂
Mountain Chickadee	2
Wilson's Warbler	15 ♂ 2 ♀
American Robin	25
Song Sparrow	25
American Dipper	1 juv



WR, J  
1989

Journal

2 mi NW Lafayette

23

Russell Tree Reservation, Contra Costa Co., California  
1300ft

June

6:48 am overcast ~55°F Route: 580 to 24  
to San Pablo Dam Rd to Bear Creek to Happy Valley  
mebag 60811.9

9:51 am No fledgling or nestlings. Some  
individuals have few quiet vocal but no  
"chipping" or "bleeping". The orioles, towhees and  
robins are all busy feeding fledglings. Others  
Horned & Thrush are very: I saw one  
well feathered bird of the year it was assorting  
with another robin I believe was the adult.  
These individuals were in the willow near the  
huge blackberry patch on the W side of the road  
250 yds from where I park in pine grove.  
Individual that I watched on 15 June  
is not calling in or around the area of the  
what I thought was Queen Anne's lace but  
is really poison hemlock! Walked down along  
the W edge of the hemlock patch in the Buckwheat  
heard a "Chirp" and a fledgling responded  
with "Bleeding" from the hemlock. I think the  
hemlock provides great cover for fledglings  
but I don't believe the parents nest there.



11/8  
1938

10:50 AM  
of Oceanside

24

Point Reyes Bird Observatory, Marin Co., California

23 June

9:33 AM, bright and clear warming ~60°F.  
route 580 W over San Rafael Bridge. Central  
San Rafael ext. 3rd street go left take it  
out of town bear right at St Francis Drive  
take to Dead in into Highway 1. Go S on  
1 ~15 minutes <sup>Quiles</sup>, immediately out of forest see Bolinas  
lagoon go to right <sup>Glenca Bolinas Rd.</sup> dead ends go left then  
1/2 mile take Mesa Rd to R-jt for 4 miles west.  
ph. 868-0655

Geoffrey R. Geapel leave about their  
program. Tomy Spauans will be fully  
grown wings and wt 15 days after fledgij.  
Fat assessed by yellow or granular. SK on  
by looking for windows under light. If tail  
not fully emerged then still probably feeding nestly-

or 1 mi W Hobart Mills 5840 ft

28 June

Prosser Creek 3.3 mi S of Sycamore Creek Field Station <sup>Nevada Co. Calif.</sup>

7:24 pm Collecting with Jeff Groth. Having trouble  
with .22 auxiliary ramal have to get incredibly  
close. Make incision from base of sternum to vent  
do not go thru vent. Push skin back, try not to enter  
body wall. Skin back on both sides as far as you can  
Wait as long as possible to use sawdust because views  
obscured. Work to get legs out, Disarticulate fibrotarsus  
from femur and then tie it to skeletal. Cut connective tissue  
near joint; don't worry about petela. Skin down to heel cut  
then connective tissue do not cut bone. Now go to release



nth, J  
1988

or/inv. W H Hart  
Nevada Co. Calif.  
25 miles  
5340ft.

## Journal

Prosser Creek 3.3 mi S of Sagehen Creek Field Station.

28 June

tail. Cut thru pygostyle. Do not pull. Cut thru humerus pull it out ad cut at radius ad ulna. Now go to head gently work out ears. Release skin from eyes cut thru transparent membrane. Take skin down to base of bill. Flip tongue out, cut thru jaw. Clean muscle out of arms ad tail leave some but not a lot of muscle around tail

29 June

Sagehen Creek Field Station, Sierra Co., Calif.

We awoke at 4:50 am (late). The alarm did not go off. For breakfast had toasted rice cakes and jam with Peet's Arabian Mocha (mmm..) 5:42 On the S side of the dining commons where Red crossbills caged on top of Jeff Broth's duck, wild Red Crossbills coming in and land on duck Singing ad calling: ♂'s ad ♀'s Jeff thinks it is a breeding aggregation ♀ ~~is~~ his type 2 Song sparrow ad Am. Robin calling near creek. Walked along a steep N bank of Prosser creek S of the station a couple miles I flushed a Townsend's Solitaire. It was sitting on 4 eggs. The nest was under the edge of a foildia on the ground. Woven with grasses about 4" wide. The eggs were bigger than sparrow eggs but similar color and pattern. Grey blue with rust flecks. I picked

old nest



July, 1988

1988

# Journal

26

1 mi. W Hobart Mills  
~~6000 ft~~  
5840

Prosser Creek 3.3 mi S of Sasch Field station, Nevada Co., CA

29 June

One of the eggs had crushed it, blood depression formed at the crack. Found many SS but discovered you have to get quite close to get the shot. Within 5'. I got one sparrow this morning out of 7 shots! It works well to leave tape player out in open and seek cover next to a preferred perch and wait for the right moment. Found an SS nest in small bush ~3' high (not willow leaves too large (fat)). Nest was at base of bush no more than 3" off ground about 3½" across woven with dead grass. ♂ was disturbed by playbacks and would call in response. While I was hunting the ♂ I flushed the female and ~10' there were 2 very young chicks (~1 or 2 days; no feathers except a wee bit of fluff on their heads). I collected the ♂ but not the ♀. Nest was ~2' from row of willows that were 3' from the N edge of Prosser Creek. Sandy-rocky substrate nest pretty well hidden from above. Earlier today (before noon) heard ♂ give an incomplete call probably saying he is grassland breeding for the reason. The birds were quite responsive to playback in afternoon possibly even more so - in early AM.

3.3 mi's  
so far ~~out~~

18, J

1988

Journal

27

6100ft

Alder Creek 4 mi W of Hobart Mills Nevada Co California

2 July

9:50 am Jeff and I drove S from state park  
Pioneer Creek to Alder Creek Rd. Went  
west on Alder Creek Road for 3 mi until  
driv. turn off to R with Bent Street sign  
indicating Alder Creek Rd. we drove NW about  
1 mi and hunted along the creek. Not too many  
Spanos. Too much alder not enough  
willow plenty of Fox Spanos. So Jeff shot  
a male and female SS. Last night I checked  
the nest I found in Penny Pines, it was still  
empty (that nest was found 17 June). Heard  
individual give "Sip sip" as I stood in water  
thinking so maybe they re-nested elsewhere  
after I found them on the 19th. I collected  
the nest.

29 July Saylors Creek Field Station Sierra Co. California 6328ft

4:27 pm arrived at State 3:40 left Berkeley  
about 11:30 am. Took Chris' car lent  
mine to Wang so she could go car shopping.  
Chris and I drove S on I-80 until South  
Tahoe exit stopped at Safeway for some  
Corned Beef, Y2-Y2 and Maki-Maki.

Donna invited us to a Barbeque and  
wiffle ball game time. It is a hot  
day (~85°F) with large cumulus  
clouds. Chris and I will walk S  
along Saylors from our tent site on W end



mtt, J  
1989

Journal

28

6328<sup>th</sup>

Sayler Creek Field Station, Sevier Co., California

29 July

of meadow. This will take us into the Pinyon Pines. The purpose of the trip is to see what stage the Say Sparrow nest cycle is in. There is a Wilson's Warbler "Sipping" at us in the willows just back the west end of the meadow. Donna and Joe are almost finished with the new cabin of Dining Hall. I decided to stay in meadow over tent-frame cabin because it was so cold at night when I was here with Jeff. Chris brought this enormous red air-mattress. Didn't see how it works. Found a nest in crook of a willow ~4½' off ground & is empty ~25' from S side of Sayler Creek nest dimensions  $3\frac{1}{2}'' \times 3'' \times 2\frac{1}{2}''$ . 5:16pm things are very quiet. We walked 2 along Sayler feisty in willows have seen 2 ♂'s (?) who chirped at us and then vanished do calling or young ones seen or heard. 2 dark-red juncos are chipping in the pine tree looks like one is following mother. 6:02 100yds E on Sayler was watching a suspected juv calling "Bleeeep" for ~3min an adult flew into a pine tree abt abv 3' off ground 7' S of juvenile it flew to same branch as juvenile and fed it then hopped up higher branch. Chris says tree is 3rd indio not as puffy as juv perhaps 2nd adult they are all



th, J  
1989

Journal

29

Sayre Creek Field Sta., Sierr Co. California 6323ft

29 July

Three adults in same tree on 3 diff branches  
about 10" apart each branch. low < 3' off  
ground in Pine tree (Ponderosa?). Normally  
only chipping was heard and flying from  
juvenile.

30 July Penny Pines 1.5 mi. S of Sayre Creek field station <sup>6300ft.</sup> Marin Co., Calif.

set up 3 30m nets 9:22 am caught  
an individual which I will band and measure  
it is a 65°F sunny wth lots of white clouds.

- FWS Band # 1431-14501 on left leg (1B ft. well)

Bill length 10mm (measurements made with plastic ruler)

Bill depth 6.5 mm

Wing length 64 mm

Tail length 64 mm, very worn feathers maing just shaft

Tarsus 20 mm

Middle toe 17 mm

Molt <sup>heavy</sup> ~~some~~ back molt, tail very worn

Broad Patch yes

sex prob female

age adult?

Fat ran away

She beat her head against the wires it was feather  
bare ad blood

- End of 143-1401

Have seen dark-eyed juncos, Hermit warblers (n), orange-  
crested warblers, Mountain chickadees, Red-shafted

sp. Act.



1930

Journal

30

Perry Pines, 1 1/2 mi S of Sojourner Creek Field Sta. Alameda Co. Calif <sup>(6300 ft)</sup>

30 July

fleas. Have heard no SS calling out "sippys". It rained a little but this morning about 5:15 am. We got up 6:13 only heard jays calling, no Robins which is in sharp contrast to the morning chorus 3 weeks ago when the Robins would wake me up at 5:15 am like clock work. Saw 1 sparrow this morning it rattled and flew S down to stream. Belted Kingbird flew over very hi (500 yds) & called as it flew over the creek flying north.

FWS Band # 1431-14502 left leg (IB)

Bill length - 9 mm

Bill depth - 7 mm

Wing length - 65 mm

tail length - 67 mm - moderately worn

tarsus - 18 mm

middle toe - 17 mm

molt - no

brood patch - yes

sex - female

age

fat - no



Smith, J

1988

Journal

31

Lenny Pine's 15 mi Sg Sage Creek field station, Nevada Co. Calif 6300ft

30 July

FWS Band # 1431-14503 (IB)

Bill length - 9mm yellow lips

Bill depth 6.5 mm

wing length 62 mm

tail length 66 mm

tarsus 20 mm

middle toe 18 mm

molt - right side #4 about halfway in  
brood patch - yes other side complete

sex - female

age - juvenile

fat - none

Strange yellow protuberance (bump) from uropigial gland (3mm long 2mm wide)

All three so far caught in same net  
plus one chickadee.



Smith, J

1988

Journal

32

Penny Pines, 1.5 mi S of Sawyer Field Station (6300ft. Nevada Co. Calif.)

30 July

FWS Band # 1431-14504 (IB)

Bill length 8.5 mm

Bill depth 6 mm

Wing length 63 mm

Tail length - 1 tail feather ~~recessed~~ 54 mm

Tarsus - 20 mm

Middle toe - 18 mm

Molt - all over, secondary coverts half emerged

Broad patch - no

Tail feathers 1 cm

Sex - hard to say

Age - juvenile - yellow lips

Fat - some fat

Protuberance from uropigial gland  
(2.5 mm x 1.5 mm)

October

Pt. Reyes Bird Observatory 10 mi S of Olema Marin Co. California

Route - San Rafael Bridge to N 101, Lucas Valley Rd

to Nicasia then Highway 1 south to Bolinas Lagoon.

8:22 am ~55° Clear skies with light fog.

Drove out to PRBO to take blood samples for DNA  
fingerprinting.

148

10th, J  
1988

# Journal

33

577 Faumont Ave., Oakland, Alameda Co. Calif.

14 December weather: clear skies, light wind ~55-60°c  
purpose: Driving to Zuni India Reservation  
New Mexico for Christmas Bird Count.  
John Frockt is traveling with me. We  
will meet Bernie, June and Carla C.  
on Friday in Zuni.

Time 3:00pm left at 3:51pm

Route 580E to I-5 to 205-I toward  
Fresno and Stockton then to E-120 to Monteca  
and Sonora, then 99-S to Fresno then to  
Bakersfield 53 + Bristow and I-40E after that

15 Dec 5-666 to E 61 (or New Mexico 63) to Zuni

on south side of road "large flock (~20)  
Mountain Bluebirds. Northern Harriers very  
common along road side with desert wedge  
tail. Saw one raven molting left remige.

approx 10 min E on 61 see Zuni Buttes in the  
distance. Homes may Zuni shrines, and religious  
offering. 15-20 Indian Home Finch flocks  
along the roadside, very pale sandy brown

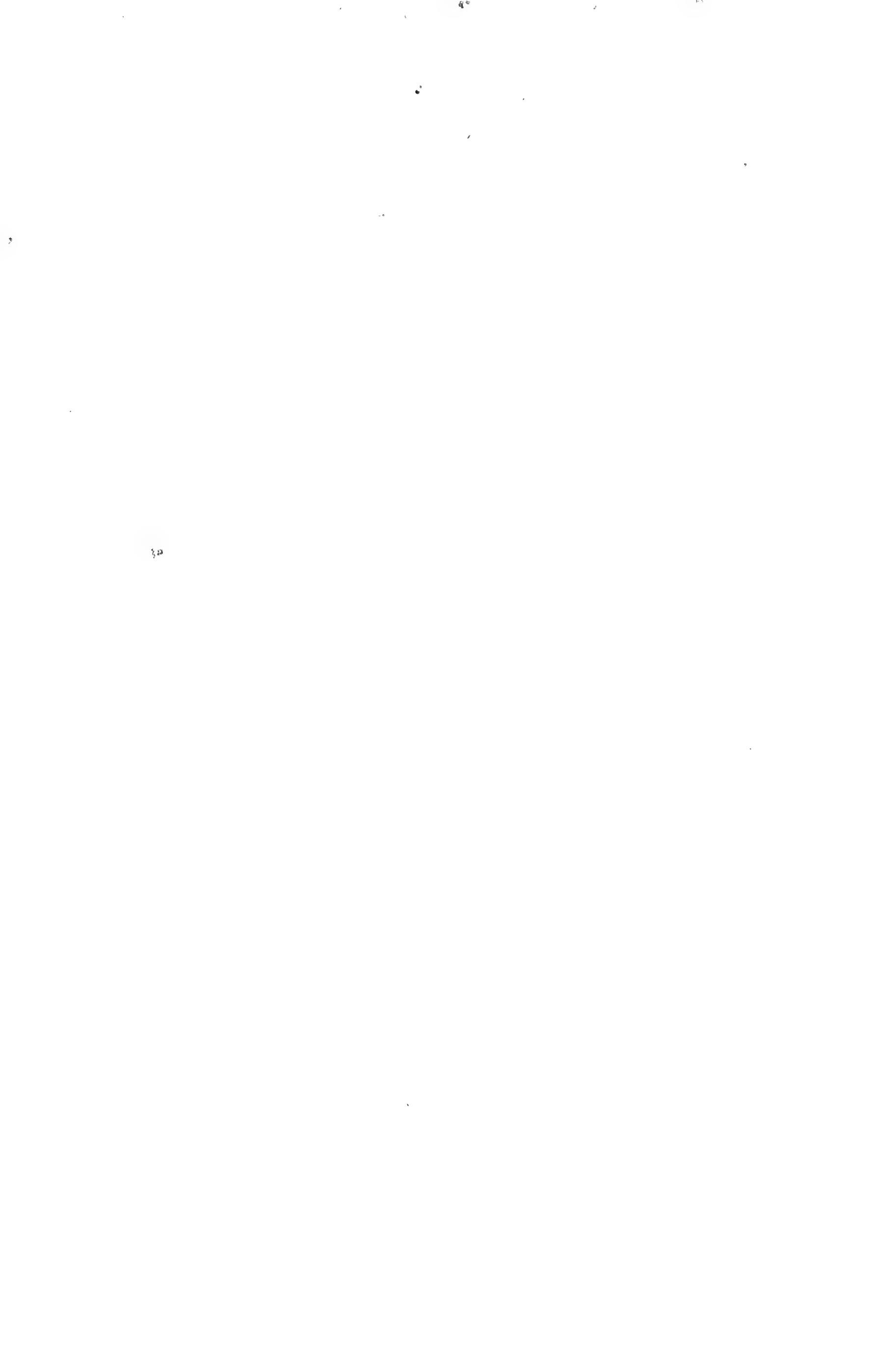
Buttles

3-4 miles off  
in distance to

E.

retreats  
in Mesas  
for Navahos  
and Zunis

dwell on  
top from 16°W's



15th, J  
1958

Journal:

34

Zuni Indian Reservation, McKinley Co., New Mexico

15 Dec

stone monuments on 5 mesa are the son and daughter of zuni chief who were sacrificed by walking into the water on the top of the mesa as they walked in the water receded.

Power line marks state boundary.

Vegetation is juniper primarily and sage with some piñon. Reservation is 1,000 mi<sup>2</sup>

This represents Zuni homeland, they and Hopi were not removed from tribal lands.

Soil is very red, reminiscent of Oklahoma in Black Mesa country. We looked for prairiehorn when we turned S off I-40 on 666-S but none.

John says pale rump should be visible in the clearings even when traveling 55 mph. Ferruginous Hawk distinct white tail band with ferruginous red.

Underwing coverts speckled black all over lot just patagial as in RT, held wings in a dihedral. Long tapering wings not rounded like RT. White-tailed plane dogmonds.

On the remaining pasture that is my responsibility we saw numerous Song Sparrows along the banks of the irrigation ditches in dead grass cover as well as in dry stream beds lined with willows and cat tails.

They were giving the "Simp" call note.

On SW corner of my plot found tall trees (~oak) near to budding. These trees had ~30 Pine Siskins with fewer American Goldfinch



18th, J  
1988

Journal

Zuni Indian Reservation, McKinley Co., New Mexico <sup>35</sup>

15 December

sitting at the very tip-top. They were packed close together ( $\frac{1}{2}$  l' apart) and would fly off in flocks together giving a "mweep" call.

birds

Species List

Pintail (30)

at dam

Bufflehead (50)

Green-winged Teal (~40)

Pied-billed Grebe (2)

Eared Grebe (2)

Golden Eagle (various) sp. acc.

Ferruginous Hawk (1)

sewage ponds

Prairie Falcon (1f)(1u)

Amer. Coot (100's)

Bald Eagle (2)

at dam

Red-headed Vireos (100)

15 Dec

Start up 106'  
Pink-necked Grouse  
Fairy-nim Hawk (1)  
Pavares  
Plane Falcon (2) P. stolidus  
Bufflehead (1) P. squamata  
Lesser Scaup  
American Goldfinch  
Ring-necked Pheasant (various) P. relictus  
Horned Lark  
White-tailed Kite  
Pied-billed Grebe (various) H. albicollis  
Amer. Coot (various) H. leucocephalus  
Ruf. winged teal (various) H. himantopus  
Ruf. B.C.  
Yellow-shafted Flicker (various) Colaptes auratus  
Great-tailed Grackle (various) Quiscalus quiscula  
Golden Eagle (various) Aquila chrysaetos

1

with, J  
1938

Journal

6400 ft.

36

Zuni Indian Reservation, McKinley Co., New Mexico

16 December awoke at 6:40 am Breakfast at Stanola and Peet's Cafeteria - Al and E.J. Charles place is ~ 10 miles N of Zuni toward Gallup. Two children Ronald and Lee and a new one expected soon.

First stop this AM ~ 8:00 am was for sage Sparrows (sage flats along Rio Pescado) a drainage area actually outside of Zuni, not back by agave fields. 2nd stop was canyon below the dam had juniper and much sage. Smelled wonderful. Weather was crisp (~ 20-30°) light wind from East but upper atmosphere blowing to East from West. Canyon is basalt rock with cattail marsh at the bottom we heard and saw many rock dovelly sparrows, wrens and juncos. Tall cottonwoods line the edge of marsh with also many Russian Olives (~ 15'). South on old 36 (Reservation 8) to pie mesa. Past condensary 11:00 am Ran into Al S. coming up out of the Mellon canyon he had seen a yellow-bellied Sapsucker & N. Shrike. We walked back down the canyon with him to see if we could see the Sapsucker. The canyon was sandstone with Bay Fir. Many siski and pinyon nut hatches. Heard solelane (sp. auct.) and saw it too.



th, J  
1988

West Branch  
main branch testing

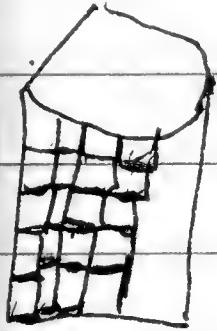
6400 ft

37

Zuni Indian Reservation, McKinley Co. New Mexico

December

We ate lunch 1:30pm at top of kayak after the steep climb back up. We left all before making it all the way down to his car. I made a turkey sandwich, sprouts, havarti cheese with grey pepper mustard sandwich. John and I shared lunch so also had turkey with swiss cheese in pita bread. Carrot sticks, and grapefruit juice too. After lunch we headed to the SE corner which a high sandy plateau to Pinyon Juniper. With alder bark looks like alder bark. This area was very quiet, hardly any sounds unless John "pished" or did a pygmy owl call. Then we would attract numerous (20-30) pygmy nuthatches a few white-breasted (2-3) and numerous juncos (50). Also picked up a Williamson's Sapsucker in a tall Douglas fir it was 10' below the top on the main trunk (sp. acet). We then drove to get back to town and spotted a Northern Shrike sethy in the top of a 8-10' juniper (sp. acet).



Alder bark

# finch  
lost



J. I. Smith

1989

Journal

Calif: Russell, Tree Farm, Contra Costa Co.  
Guerneville, Sonoma Co.  
Big Creek Reserve, Monterey Co.  
Santa Cruz Island, Santa Barbara Co.  
Sagehen Creek Field Station, Nevada Co.

Arizona: Pima, Cochise, and Yuma Cos.

Calif: Imperial Co.



10th, 18  
1939

Journal

2 mi NW Lafayette

Lawell Tree Farm Contra Costa Co Calif 1300ft

4 Feb

8:45 am,  $T = 40^{\circ}\text{F}$ , skies clear. Frost on grass. Sun shining.

Purpos- out to checking on Song Sparrow breeding progress.

Found 6 TV's sunny flanders in large trees near where car is parked. They had their backs to the sun with wings outstretched. One other TV separated ~200 yds to SW sat by on fence post also opened wing when the larger group did!

I have heard no Song Sparrow Singing. The Golden-crowns are feeding in large flocks (~15 individuals) always near a brush pile. Two Red-tails are calling "he-rah". Found one Song Sparrow by picking at the Mulberry Bush. It did a few "Chirps" and then went about preening and hopping in leaf litter.

To the W saw along trail (on top of W ridge) from Mulberry tree about 200 yds. I heard a "Chirp" ad. saw a possible one. They seem to be



10th, 1989

Journal  
2 mi NW Lafayette

39

Russell Bee Farm, Coconino Co., Ariz. 1300 ft

4 Feb

in the Baccharis along the W side of hill. also saw 2 flickers and 2 scrub jays sitting on fence posts lining the top of the ridge. The wind has picked up from the SW ~ 10-20 mph

along the ridge to the NW is a grove of live oak. Descending to the E from that ridge is a gully back with Baccharis ~ 50 yds long to the N side of trail at the ESE tip is tall Baccharis. Saw two Song Sparrows and gave "sing" call, mixed with several Golden-crown Sparrows.

Along E ridge 40 yds E of water hole saw and heard song Sparrows in Baccharis ~ 2½' off the ground near (<4') from trail on N side of road. Another answered "Chug" call off 100 yds to NE. 40 yds to N along the road found a Song Sparrow not calling but hopping in sunspot over ground (6") in a dead patch of poison hemlock. It hid in fallen branches, while could hear no one still calling from the last pt.

On the way back to the car from E end of



10th, 1939

2 mi NW Lafayette

48

~~257~~

Russell Tree Farm / Contra Costa Co. Calif. 300 ft  
of canyon. Saw Song Sparrow sunning  
itself in a Bunchgrass on N side of road  
~10 feet in front trail. This spot is only  
end of trail 200 yards W of where the road  
turns N to the Waterhole Ridge. Sharp-shinned  
flew by to the SW to W ridge out of sight.  
The pond just SW of parky area has  
a pile of wood on S end, seen ad heard  
a song sparrow singing on that woodpile  
ad one was calling well to the SW.

I drove E along paved road until  
I could go no more. Then was that machine  
"Bleeding" where I parked. I walked 500 yards  
E along muddy road into Redwood  
grove. saw Hermit Thrush and ~5 Fox  
Sparrows, numerous juncos ad Brown Towhees  
but no song sparrow.

10 Feb 8:34 AM very foggy ~100 yards visibility  
cold ~45°. It was sunny in Berkeley  
But cloud Bank here. Came out to  
try some netting. 9:16 am still dense  
fog blankets the area. I have set  
2 nets: one at the mulberry bush  
on the S side near the road. The  
other at the the N brush corner 75 yards



10th, J  
1999

# Journal

2 mi NW Lafayette

41

Russell Tree Farm, Contra Costa Co., Calif. 1300ft.

10 Feb

E of the W ridge with the live oaks.

3 past week I saw Song Sparrows in that corner. This morning I pished "at the mulberry bush" & saw 2 song sparrows pop out of the th dead hemlock on the SW border ~ 10 yds N of road.

Yesterday, Tom Smith lent me ~ 6 nets, one broad net and 5 tried at time. I am using my 2 aluminum pole sets for the first time so far so good. It has been very quiet, only birds heard were Scrub Jays and Rufous-sided Towhee.

Saw a large flock of Golden-crowned Sparrow in dead hemlock ~ 60 yds S on Road from Mulberry bush. There must have been at least 20 individuals in ~ 3m<sup>2</sup> hemlock.

They flushed from the ground onto the bushes when I got ~ 15yds from them. Red-tail called "Hee RAH" from the conifer grove where I park my car. Robin is also scolding in the same area. There is ice in the cement tub near the N edge of Mulberry bush. 9:41am at N most end of live oak ridge TV is sitting on a fence post ~ 5 feet off ground. Its head is quite red but dark around eyes and bill is white. Two flickers one & other a few on ridge calling. White-breast



11th, 1989

Journal  
2 mi NW Lafayette

42

~~Burke's Ferry Farm, Corte Madera, California~~  
<sup>1300 ft</sup>

10 Feb

nuthatch heard calling to the E. Sun is  
shining thru the fog now but it is still  
quite thick. Gulls now calling from Bay  
lagoon on W side of ridge. Flock of  
juncos (~10) feeding in live oaks on W  
side of ridge. Flickers wings are making  
loud flapping or "whooshing" as they beat.  
Fog is burning off slightly I can now see  
the lower road (leads to parking area)  
from the ridge. Heard a hummer fly by.  
I also think I've seen heavily the gurgling  
of a California Thrasher. The birds are  
becoming more vocal now at 9:46 am.

11:26 am caught 1/10 Golden-crowned  
Spurred at Mulberry Bush where I ran the  
net N-S over old well. Sun has burned  
off fog except for around hill tops. Didn't  
think seen foraging underneath mulberry  
bush. all the Golden-crowns popped  
yellow-green

~~Oceanside, Sonoma Co., California~~  
Route: 101-N out of San Francisco (~2 hr drive)

4 miles N of Santa Rosa go W on River Rd  
for ~15 miles. In Oceanside there is a  
stop sign go thru it, then 1~~st~~ R<sup>th</sup> St go left  
and see Riverlane Cabins on SW corner.



nth, 8  
1989

# Journal

43

Geyserville, Sonoma Co., Calif. 200ft

10 Feb

Rivergate Resort, 4167 ad Wallie Pass

707-869-2323, P.O. Box 313, 1st  
nd Church, Geyserville, CA. \$50/night.

Cabin w/ Queen bed, couch, Kitchen, small  
twi bed, wood burning stove, deck, grill  
refrig and kitchen stuff. We needed to  
buy paper towels. Bed had aida in it.

TV was color. No hot water in shower, and no  
maid service. We ate Lamb Casserole, California  
greens, fudge and Blueberry mectar.

11 Feb

9:30 AM very cloudy (foggy) in the morning.  
Ravens were calling near the River. 2 Fisherman  
fishing. Acorn Woodpecker tapin in tree next  
to cabin. We ate Texas Carrot-Bean muffins  
for breakfast. I had Peet's 101 Blend with  
cream. Stove was gas and works well. We  
brought cozy logs and paper towels at the  
gasburg 1blk west on 1st street. After  
breakfast we drove 2 mi N on Armstrong  
Wood Road to Armstrong Redwoods State Reserve.  
We walked into Redwood for ~1hr,  
saw flickers, variet Thrush, Townsend's Warbler,  
Nuthatch, Acorn Woodpecker.

Oil light was stayin on, checked it but  
level is high. After walkin in the Redwoods  
we drove into the park. Inside (\$3/car) it  
went up in elevation and we got into Live Oak



10/9  
1989

# Journal

44

Gavins Point, 2 mi. N of Kelseyville, Sonoma Co., Calif.

11 Feb rolling hills. The habitat was very disturbed; lots of aster or the oats, everything seemed to be dying. Saw Cooper's Hawk come screaming thru a clearing with ~6 varied thrush all "topping". Didn't see hawk take anything.

Rain clouds came up so we went back to cabin.

I took a very cold shower, we rested and read and ate lunch, Chris made chicken, avocado and tomato on fajase - very good.

~5:00 pm we drove W on 116 toward Jenner. at intersection of 116 and Hwy 1 we went S on ① to Goat Rock state beach. Very windy, painful walk along sand bar. Lots of Harbor seals, they breed March so looked like they were getting ready to wolf. ~6:30 pm sun down, we drove back to Jenner North on ① to Restaurant: Jenner By the Sea right at S edge of town. I had Seafood Supreme white wine sauce, pearls and scallops \$16.00, white wine, salad and for dessert we had swiss chocolate pie. Chocolate cake is aint and chocolate Monroe - good. Meal pretty average. Chris recommended Blue Hamm in Duncan Mills on 116 just W of Jenner.



uth, J  
1939

# Journal

45

## Gewiller, Sonoma Co., California

12 Feb We drove W on 116 to highway 1, drove N on ① to Fort Ross. A ~~the~~ Russian fort the furthest S outport of Russian Empire in N. Amer. They hunted sea otters for furs. ~pm we returned to Jenner then drove E on 116 to Monte Rio where we went S on Bohemian Hwy. to Occidental ~6 miles. We ate lunch at Orion Hotel, very Italian family style. I had Chesse Caciatore \$10. Also got bread, antipasto, salad, soup ad raviolis. After lunch continued S on Bohemian Hwy to Valley Ford furniture Rd then to Hwy 101 south to San Francis Drake. Stopped in Fairfax at Julie's apartment. Just before turn into S. San Francis Drake to Hwy 101 S to Golden Gate. Oil light kept coming on when accelerator not put down. Retracted to ches ~6pm.

25 Feb Russell Sea Reservation, Eni NW Lafayette Contr-Lester Co. 4.  
9:00am Weather was sunny and very warm ~50-55; but a past ½ hour it has become quite threatening to the south and is now overcast. The 55 pair near the Monterey Bush would not respond to playback of song sparrow. Bent in a Bush pile ~75 yds SE (over th road) there is an individual chirping. I have played playback



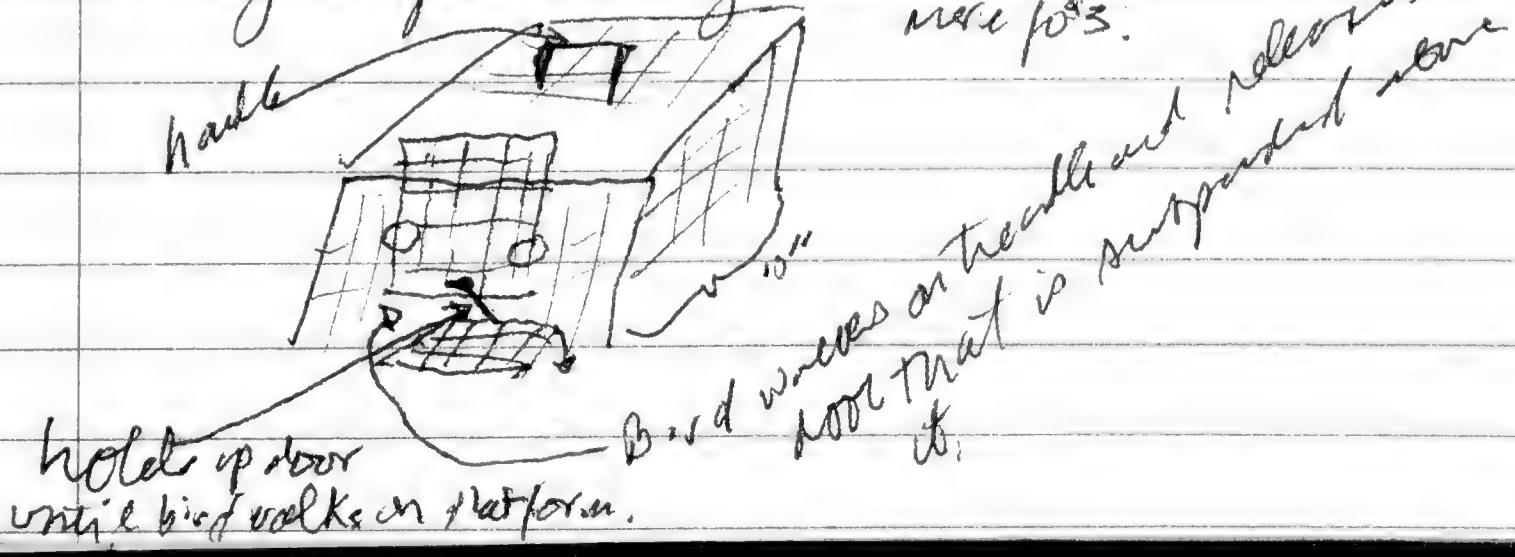
Th, J  
1989

Journal

46

~~Farrell Game Reserve, Day 10 Whipple Cat Cat Co., Calif 1300~~

25 Feb but it doesn't stay "Chirry" thought & may have heard a higher pitch give a response from 5yds to SW. Black Phoebe was giving a "Peek" call repeatedly from that old tool shed like my just W of meadow patch. The hillside is green with a thick mat of grass 1 ft tall. Even the road is green and muddy from the tool shed on. The wind has increased 15-20 mph. 15 minute later the radio dad is no longer in flight & has stopped chirping & will not respond to tape at all. It is raining lightly now & I have returned to the car and the cover of the pines. There is blue sky to one side of my seals clouds to the other. We need the rain so badly it is hard not to welcome it besides the fact that it is interrupting field work. The scrub pgs are suddenly "Yak-Yak" but now my elk is calling. The car needs a new wiper! boy does it sound tough coming up over the hills. Yesterday Bob Jones gave me some Baileys traps to try out. He said we could make more traps.





10th, J  
1939

Journal

87

Lanellsee Rd. 2 mi N W Lafayette, Contra Costa Co., Calif. 1300 ft.

25 Feb I want to OK putting out bird seed with with Frank (Veterinarian) before I go for a trial run. Yesterday, I spoke with Mary Ann Fox from the animal use committee. She was very nice and just needed some clarification of a few minor points. When I heard that she had called I got very nervous, thought there might be a big "Hoo-Hah" about the application. She said it would be reviewed in March. I heard a frog call from the drainage ditch by the road, do "Dop-RRR" very rasping. The Scrub Jays are imitating Red-tails. When I first got to the Malibay bush this morning I thought I heard a say sp. call from the brush piles of the bush. It was giving almost a full song but sounded like it could have been a Fox Sparrow, but then I did see the say sp. in exact same area later. Clancy.

for many at  
her rain covered  
rocks and  
say not at all  
in scrub and Malibay.

Species list

Turkey Vulture 6

Amer Robin 1

Acorn Woodpecker HO

Scrub J. 2, HO

Northern Flicker 1

Steller's Jay HO

Marying Dove HO, 6 Fly

Black Phoebe 1

Wren HO

Chestnut-backed Chickadee HO

Red breasted Nuthatch HO



2/8  
1989

# Journal

48

Russell Game Farm, 2 mi NW Lafayette, Contra Costa Co. Calif 3000 ft.

4 March Out at Russell to set up some feeding stations. Put Safeway Cardinal Chow (1.39 lbs) at wood pile near fence in pond. Also at mulberry bush set up piles at the bath tub ad near well gray. At this spot I heard a full male call followed immediately with us break a female singing. Then there were some "chirps" this was at 9:00 a. m. The weather is overcast and sprinkly. I have heard 2 other Song Sparrow full male calls up the hill ~150yds. One sounded like it came from that den of W ridge I tried to net at earlier. Raining hard now, almost like sleet. I have taken refuge in back of the station wagon (9:37am).

9 Mar 7:30 am take 22 minutes to get from home to Russell, I re-stocked the feeding stations with Chick Feed from Lucky Pet, near the alfalfa (51st Alston ad?) on University W side of road. SS are calling heard chirping from mulberry S side. 7 TV's soaring in very overcast, slight drizzle wind from NW ~10-15 mph 8 in mulberry just called 7:49, thought I heard ♀ sing in return



ut 4, J  
1939

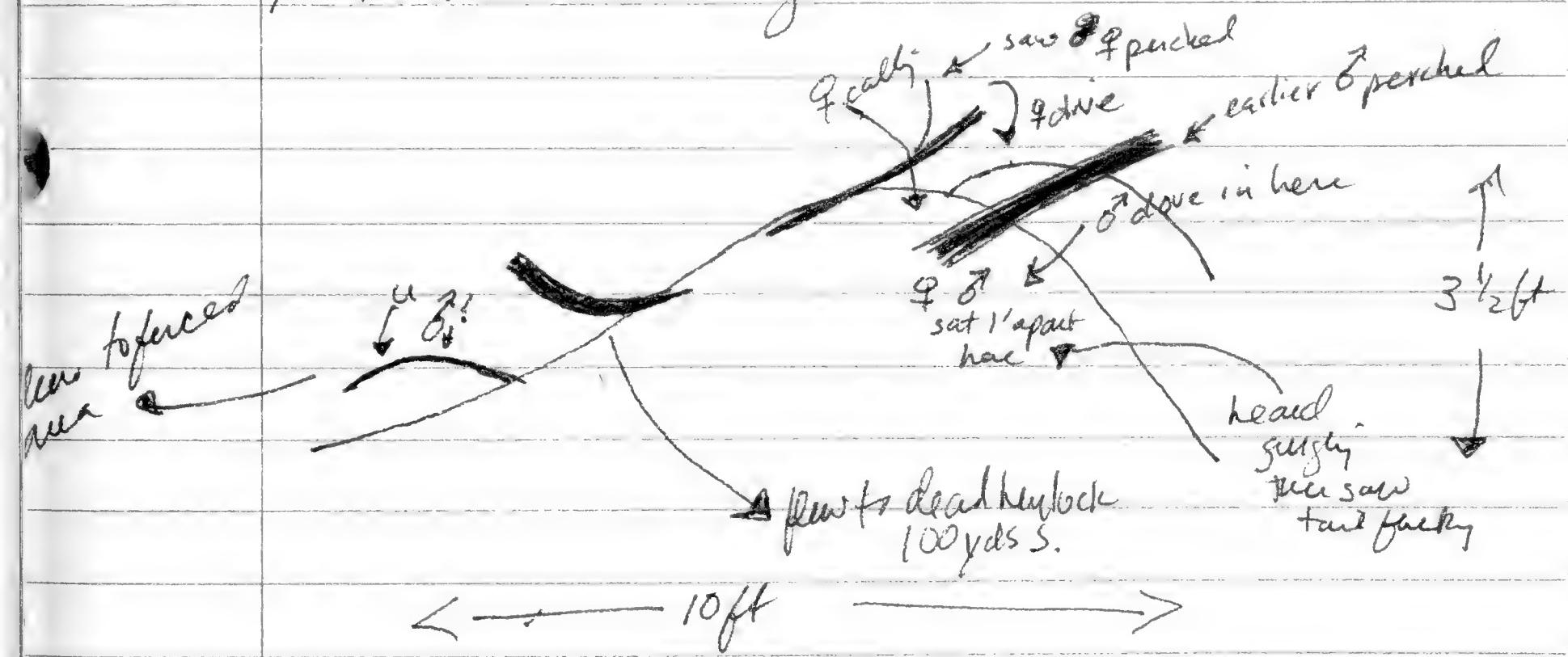
49

# Journal

Russell Fox Reservation, 2 mi. NW Lafayette, Coahuila Co. Cal.

1389 ft

gmn Watched a pair 7:52 on 2 sides of road just where gravel ends there is a brush pile. ♂ gave full call and female came out of pile singing. 7:53 winds have picked up 15-20 mph storm is threatening. I hear calls from w side. Lots of female vocalizations today. ♂ calls from 1st feeding station by pond. It looked like it had been eaten from so far the ♀'s side mulberry station but not N.



75 yds NE of talk but when I'm situated

It seems today that I will hear a ♂ at the ♀ will sing in response. From mulberry I have heard strange to, slow calls and partial ♂ "wick wick wRAH", golden-crowns (4) landed at W edge no response from SS. About 9:45 a large flock of white-crowns (~10) individuals flew into the brush pile, I haven't heard or seen an



1989

Journal

50

Russell Inn Reservation, 2 mi NW Lafayette 1300 ft. Santa Lucia Mts. Calif.

9 Mar

soy sparrows since. The sun has poked out from 6 ft. base clouds to the east. Wind is still strong; but clouds are breaking up. Clouds thick now 10:12. I put out seed up on S trail in that patch of scrublands I was walking back toward valley w/ no mailbox bush I scared up soy sparrows from the dead scrub oak. It was in same area I had seen that ♂ fly into eagle in the AM.

Species List

Turkey Vulture 6

Red-tail 10

Kite 3

Rufous-sided Towhee 10

Brown Towhee 2

White-crowned 15

Golden-crowned 4

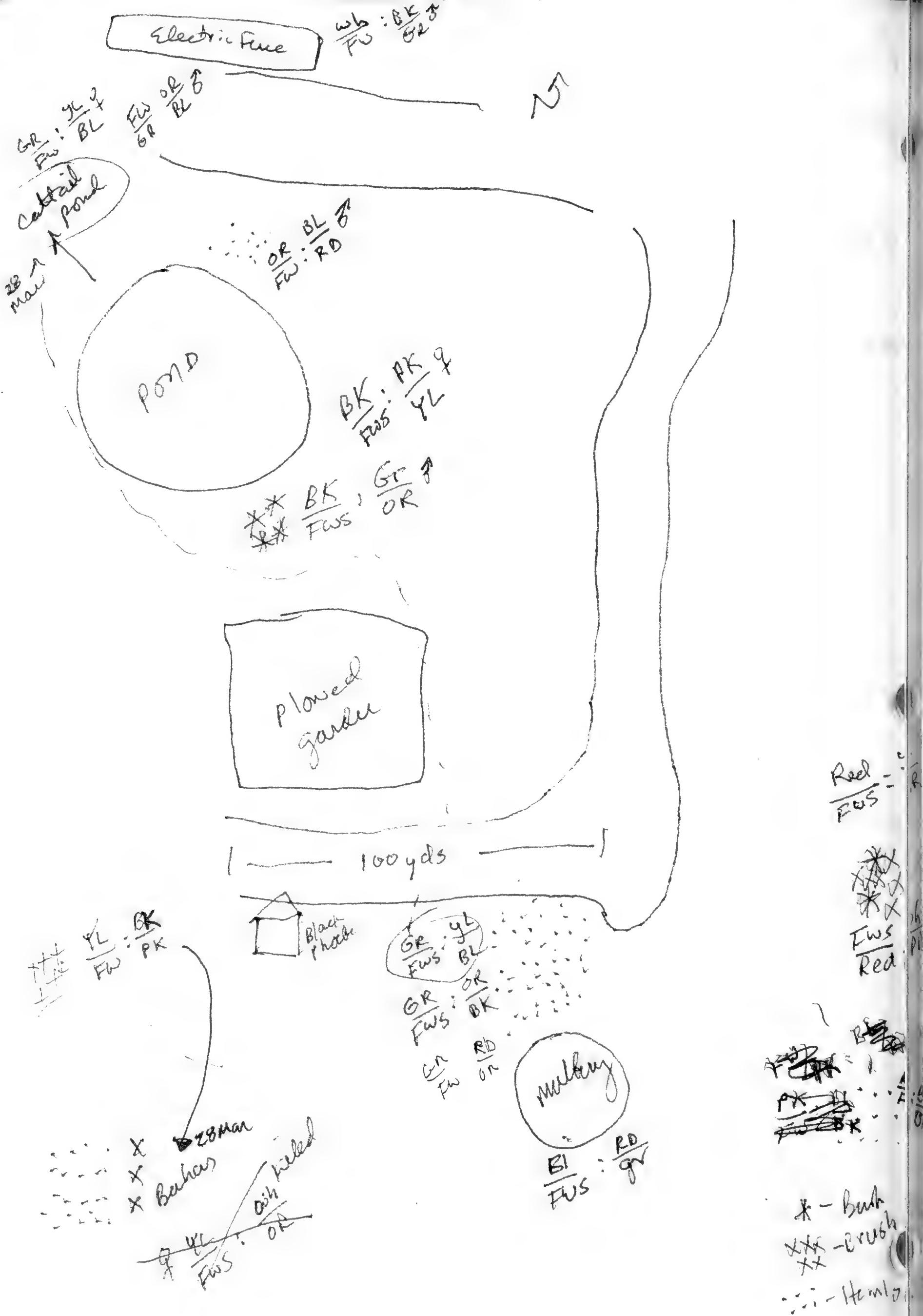
SS 12

Black Phoebe 1

Robins 15

Steller's Jay 1

Scrub Jay 2



1939

# Journal

51

Russell Tree Reservation, 2 mi NW Lafayette 1300 ft., Contra Costa Co.  
Calif.

May

Banded ♂ at wood pile 75 yds north  
of mulberry tree he is <sup>FWS</sup><sub>red</sub>: <sup>white</sup><sub>pink</sub>. Female  
would not go in net. Set out feed & saw  
two males feeding near SE pile. Also banded  
possible pair just north of mulberry patches in  
dead hemlock. Both came into net right  
after I had used the tape player. & think  
canary bands are too large. I will try  
Zebra fresh. There 2 males were banded.

Cree: yel Blue ad. Cree or  
FWS FWS BR

BK: G & OR caught at Pond brushpile in baited trap

4 Mar

Very very clear; frost on the ground.

Get out baited traps 16:45 am, I caught  
1431-14505 (IB) Fw's/red: w/WPK at the brush pile

11

at 7:40 with a Golden-crowned juv on the

other side. At 8:13 am caught 2031-8904  
B/fws: Rd/gr at Mulberry bush head mat (?)

calling from tree while I was banding  
this indiv. Have been trying to net indiv in Baccharis  
clump 75 yds sw of mulberry. It is calling but

35445

flew over net. Saw a Green-backed Heron in marsh  
patch just N of mulberry ~ 8:30 am, it was  
calling. 9:46 am started • 2031-3905 ♀?  $\frac{\text{Red}}{\text{Fins}}$  :  $\frac{4L}{SR}$

she flew off to hawk at patch of GEEWS and  
then she landed near sparrows from tr patch song.



March  
1989

Journal

52

Ranell Lakes 2 mi NW Lafayette, Contra Costa Co., Calif (1300 ft)

14 Mar saw GR <sup>OR</sup> fws: ♂ singing in live oak ~ 10' off ground on N side of mulberry just to the S of the haulock patch where I caught him. The bare patch on his head was visible from ~20 yds.

17 Mar Out to Ranell by 6:40 AM, sunny, light cloud cover, no wind. Have nets set up at sight

S of mulberry and in Haulock in central valley.

Both ♂'s are calling, also heard chirping as I was setting out nets. Saw a ♂ <sup>OR</sup> fws male feeding at bat on N side of mulberry it was with his golden-crowned. Watching both individuals (<sup>RD</sup> fws) at brush pile. One looks for nesting behavior. One individual is more active (fwd?) than the other but both are seen sitting on top of brush pile. Could it be that individuals that are awfully tail feathers now were last year birds? Lots of white-crowned > 6 on wood pile with few seeds.

<sup>OR</sup> <sub>FW</sub>: <sup>WH</sup> ♂ was killed in west net with its mate by a Cooper's Hawk! Ach I'm so mad I saw the hawk fly away as I came over the hill to check the net.



uth, J  
1939

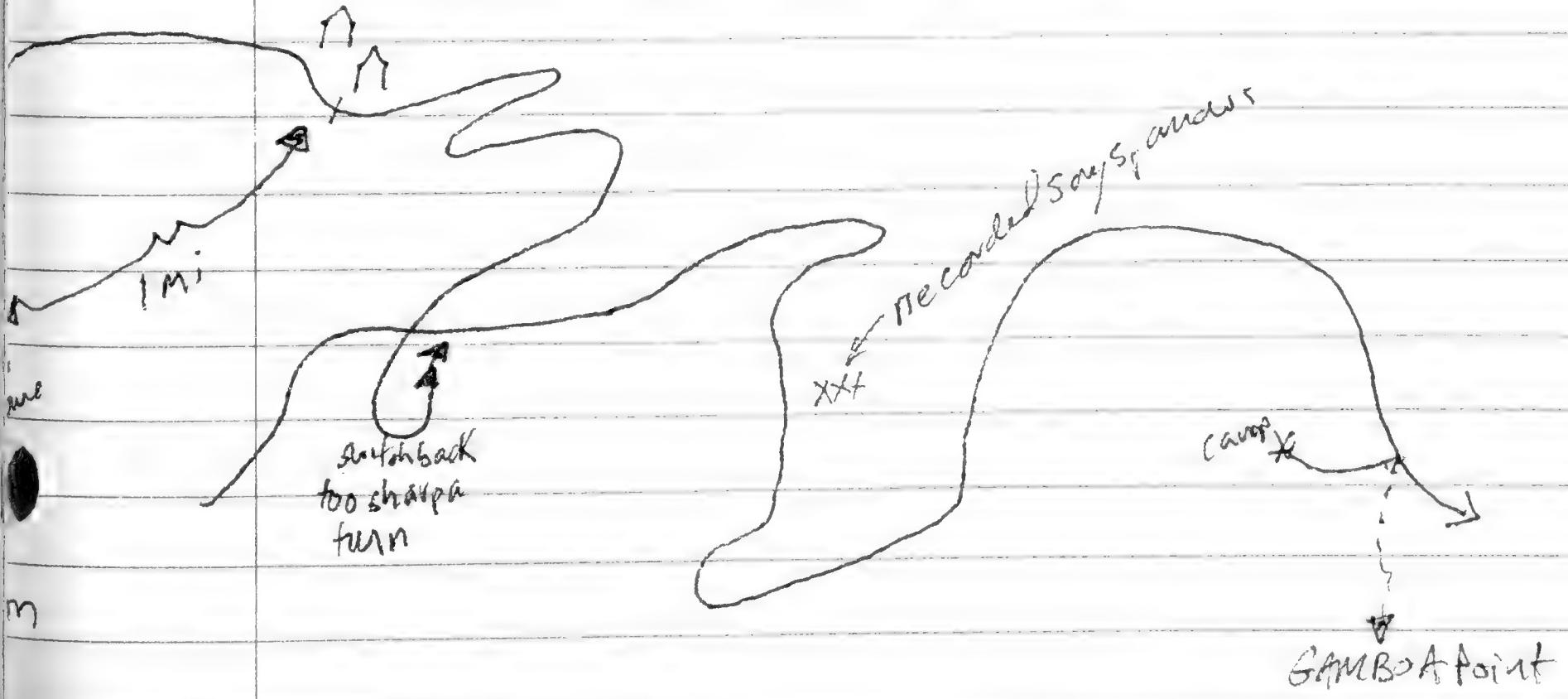
# Journal

53

Big Creek Reserve, 20 mi S Big Sur, Monterey Co., Calif 400 ft

19 Mar we started from Oakland yesterday at 1:00 pm. We headed 920 to 980 at San Lorenzo but major traffic jam sat there for 1 hr waiting bumper to bumper there was no sign of an accident, just lots of traffic. Once we got out of San Jose on 1st traffic lighted up we then went down 156 at Watsonville which becomes highway 1 at Seaside. We traveled S along 1 20 miles from Big Sur to UC Big Creek Reserve.

It is 5 miles S of Esalon Institute just on S end of 3rd Ridge from Esalon. John Smiley is Reserve manager (408-667-2543) local comb is 87-88. John said road was clear to the Ridge campsite so at 6pm Chis and I started the climb up to the camp we drove the Volare, it got hot but made it w/o incident. To get to ridge camp:





March, 8

1939

Journal

54

Big Creek Reserve, 20 mi S of Big Sur Highway, Monterey Calif.

19 Mar We had eggs set by 7 am we ate Salmon

Wheat Baby Mix sandwich, not great but filling. The Gumbo  
up whole wheat flour we had hoped to have was still frozen solid.

up white flour Went to bed at 9:00 pm. The night was overcast

up soy flour but moonlight was sufficient mesh for a stroll

up wheat flour to Grindola pt. I awoke this morning at 6:21 am  
easy Baby powder to the sound of juncos ad female woodpeckers.

1/2 cup salt I fixed a breakfast of soy-wheat Baby Mix

cup dry milk Biscuits (2 cups flour, 2 TBS oil, 3/4 cup H<sub>2</sub>O). ate them with

up sugar Wildflower honey from my foods, Mocca Java;

1/4 cup Brewer's yeast or organic ad half-half. Marin! delicious.

Fried biscuits in tequila pan w/ 1 TBS of mayonnaise  
extra Mix worked very well.

ups Whole wheat flour We ate lunch at the Best Western in

up each Rye <sup>now</sup> and Cornmeal Calmaria, actually Best Western is &

up soy flour of Town on sea side. I had a big

TBSP brown sugar burger and fries, this a BLT. It was

TBSP baby powder typical restaurant fare, we got out of

up each salt and Soda there for \$4 incl tip. I recorded soy

spacemans as we descended from the ledge

at Big Creek it was ~ 11:15 am there were

~ 6 in dms 3 on N side of road 3 on south

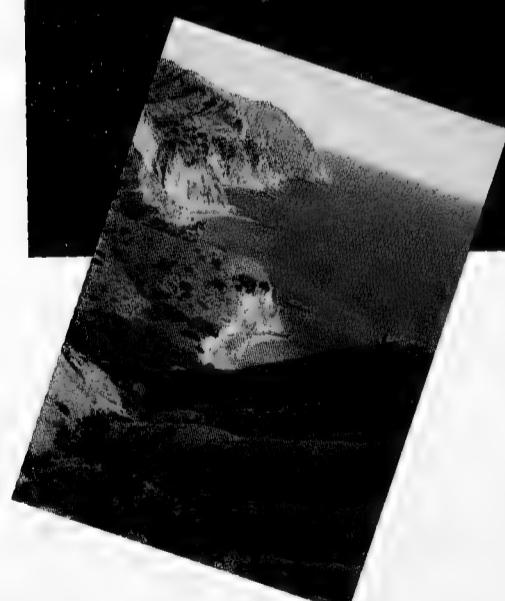
They were small and dark. They were in

Bracken fern, Tan Bark oak and lots of Poison

Oak, (dark red leaves), also live oak, redwood

and Monterey pine. We left Big Creek at 12:45 pm

# The Santa Cruz Island Project



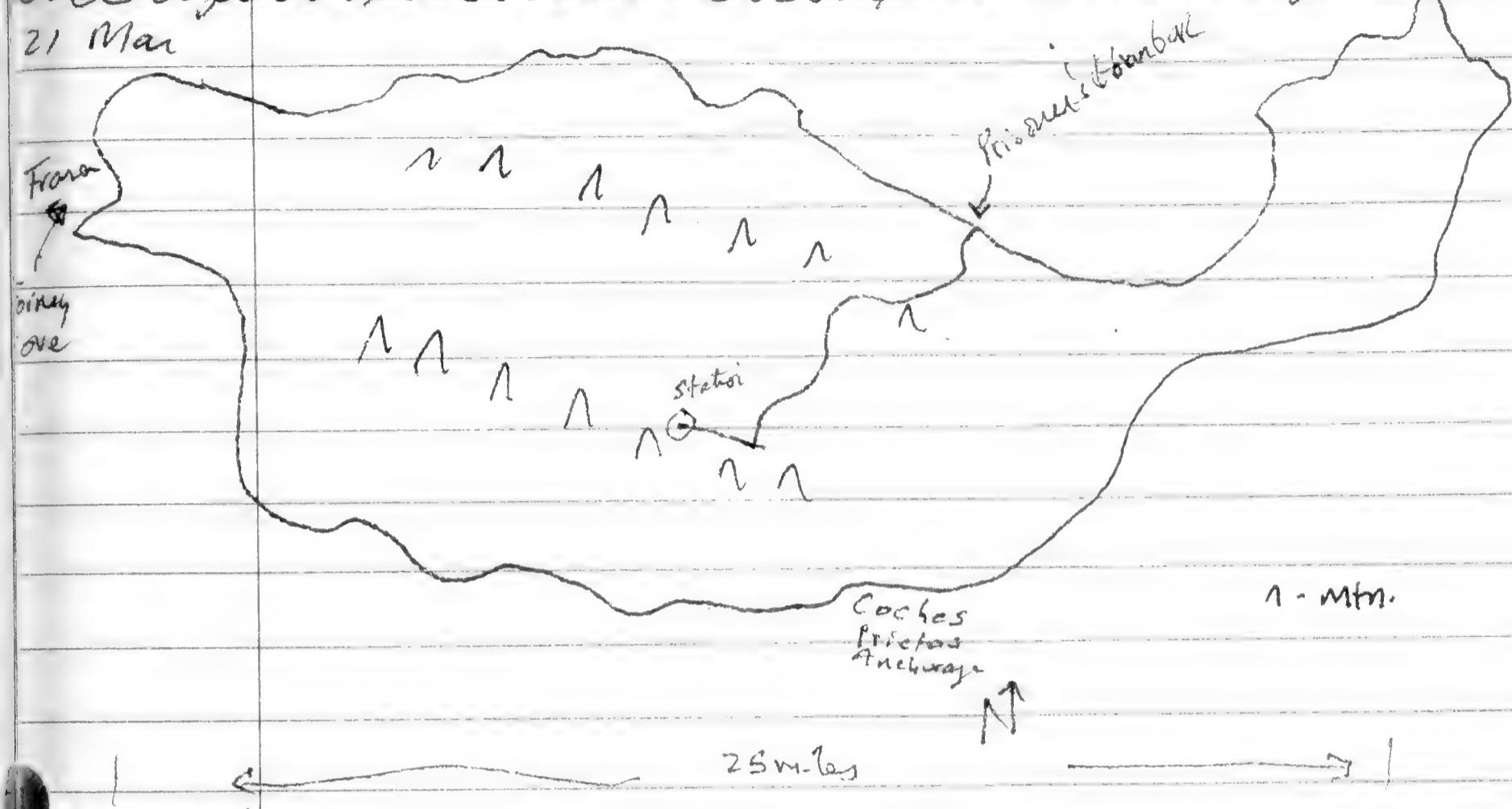
8, J  
1989

journal

55

Santa Cruz Island 25 miles W Santa Barbara Santa Barbara Co. California

21 Mar



Yesterday we arrived on the island at 11:30 am  
it was a 1½ hour ride from Port Hueneme which  
was 9 miles S of McGrath State Beach on Ventura  
Blvd. We took Pleasant Valley Road W onto the  
Bar. Where we went to security office. We needed  
Driver's license, identification and proof of insurance.

We loaded up the boat and headed out at 9:00 AM.  
Saw Western Gulls, a tern (several), Brown Pelican,  
Flock (~10) Western Gulls in the Harbor, I thought

I saw a Skua on the way out. No mammals.  
Lendl met us at the gate <sup>at Prisoners Harbor</sup> and drove us 2 miles  
to the station. There is a large kitchen with  
dairy area, sunroom that is screened in  
porch with bunk beds, ping pong table and couch.  
There is a popcorn oil stove. After a brief

white-tailed  
m (white)  
arcoches in  
Bachas

# Santa Cruz Island

mile island a unique and very important part of California's heritage.

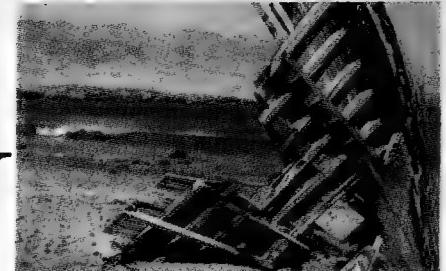
The largest and most topographically diverse of the eight Channel Islands, Santa Cruz stretches approximately 24 miles in length, is from two to seven miles wide, and encompasses 62,000 acres of land. Here are found examples of metamorphic, igneous, and sedimentary rock, major earthquake faults, Indian middens, fresh-water streams, creeks, and springs, and biotic communities that range from grassland to riparian woodland to coastal beaches and dunes. With its pristine coastline, two mountain ranges rising to 2,400 feet and 1,500 feet, pastoral central valley, and endemic plants and animals, Santa Cruz Island resembles a miniature continent.

The island supports a remarkable flora and fauna. Over 600 species of plants are found on the island in ten different plant communities. About 40 plant species are restricted to the Channel Islands, and eight of these occur only on Santa Cruz. Notable examples of these island endemic plants include the Santa Cruz Island Ironwood and the Island Oak. Over 130 species of land birds have been identified on the island. The Santa Cruz Island Scrub Jay is representative of island endemism, being larger and bluer than its mainland counterpart. Of the 13 species of terrestrial mammals on Santa Cruz, the Island Fox is a well-known endemic animal characterized by its small size, daytime foraging habits and docile nature. Hundreds of seals and sea lions find refuge in the island's protected coves. The 77 miles of shoreline cliffs, beaches, offshore rocks and tidepools provide an important breeding habitat for colonies of nesting sea birds and support a wide variety of crustaceans, mollusks, and other shoreline animals and plants.

Removed from extensive human impact by its location and conscientious private ownership, Santa Cruz Island -- with its unique assemblage of landforms, habitats, and plant and animal life -- stands as a living example of primeval America.

Rising majestically 23 miles off the Santa Barbara coast in California, wild and rugged Santa Cruz Island is a sanctuary in time. Its size, isolation from the mainland, biological diversity, and rich history combine to make the 96 square

## History



Prehistoric occupancy of Santa Cruz Island is dated before 5500 BC, and estimates of the Chumash Indian population on the island at the time explorer Juan Rodriguez Cabrillo "recorded" it in 1542 range from 2,000 to 3,000. Among the estimated 3,000 archaeological sites is the former principal island settlement of the Chumash.

In 1839, 25 years after the last of the Chumash Indians were removed to missions, the island was granted to Andres Castillero by the Governor of California. In 1857, Castillero sold the island to an Englishman, William E. Barron, who in 1869 sold to a group of San Francisco businessmen who formed the Santa Cruz Island Company. In 1880 Justinian Caire became the principal owner and established a colony of mostly French and Italian immigrants on the island. This early ranching operation produced, among other things, walnuts, olives, cattle, sheep, honey, almonds and some of the finest early California wines under the Santa Cruz Island label.

In 1937, Edwin L. Stanton of Los Angeles acquired the western nine-tenths of the island and concentrated on cattle ranching. In 1957, Edwin's son, Dr. Carey Stanton, returned to Santa Cruz Island to take on the task of managing the ranch. Along with Ranch Manager Henry Duffield, Dr. Stanton continues to run a "functioning nineteenth century cattle ranch."

In 1975, Dr. Stanton approached The Nature Conservancy about a possible joint conservation effort to ensure preservation of the island. Through a generous arrangement with Dr. Stanton and an outpouring of public support, The Nature Conservancy was able to acquire an interest in the Santa Cruz Island Company property by 1978.

Today, a conservation partnership exists between The Nature Conservancy and the Santa Cruz Island Company. Included within the boundaries of the new Channel Islands National Park, the Santa Cruz Island Project of The Nature Conservancy will provide for continued protection, research, and educational use of this privately-owned land.



# Management

Proper management of the Santa Cruz Island's biological and historical treasures requires the use of careful stewardship practices based on sound scientific research. The Conservancy's Santa Cruz Island Preserve Management Plan calls for continued emphasis upon research and assessment of various plant and animal species and communities, geological formations, and archaeological sites. In cooperation with Dr. Carey Stanton and the existing University of California Natural Land and Water Reserve Research facilities, a program of directed research and restoration continues.

Educational programs specifically related to Santa Cruz Island will continue both on and off the island. A film and slide program are available for use by interested groups, and lectures by project staff may be arranged.

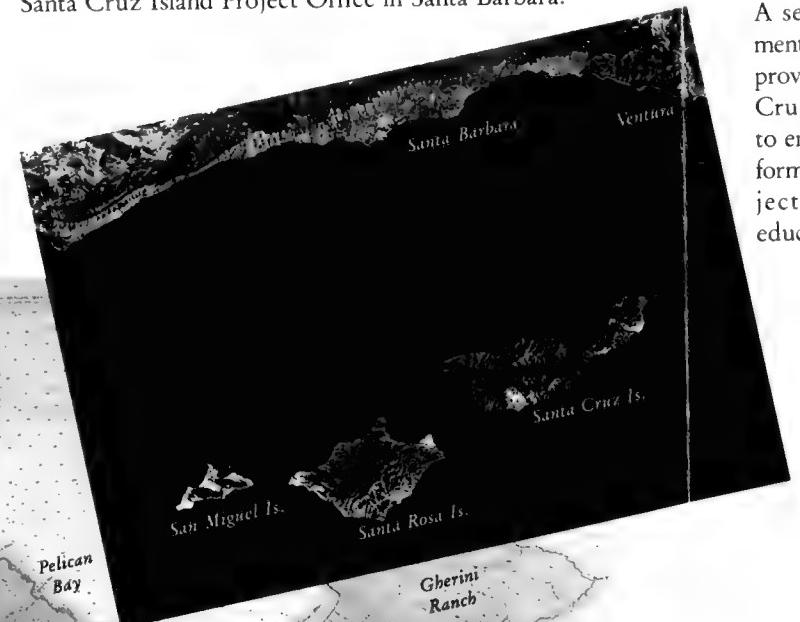
Although limited public use of Santa Cruz Island will be encouraged, the island's biotic communities are extremely fragile, and intensive recreational development and use would be disastrous. A Public Use Plan provides for those uses which (1) do not threaten the island's natural resources, and (2) serve to emphasize the island's biological and historical importance.

# Access

Due to its isolation from the mainland, consequent costs of transportation, and fragility of certain portions of the island, access to Santa Cruz Island is strictly limited. Yachtsmen may obtain landing permits by writing the Santa Cruz Island Company at 515 South Flower Street, Los Angeles, CA 90071. These permits allow daytime landing and list strict rules governing activity on the island.

There are no established trails, camping facilities, or services of any kind on Santa Cruz Island.

A limited number of naturalist-led day-trips to Pelican Bay are scheduled each year. Groups representing educational, research, and non-profit organizations are eligible to request reservations. Inquiries regarding these periodic trips may be made by contacting the Santa Cruz Island Project Office in Santa Barbara.



# Funding

The Nature Conservancy's Santa Cruz Island Project began with a gift of land and the acquisition from the Santa Cruz Island Company of 54,500 acres at a cost of \$2.6 million. A major corporate gift provided a large sum to begin the drive for funds, and then individuals, foundations, and corporations participated in the massive effort to raise additional money for the acquisition. A second fund-raising drive resulted in the establishment of a preserve fund which has been instrumental in providing for Nature Conservancy stewardship of Santa Cruz Island. Continuous financial support is necessary to ensure permanent protection of this important landform. Your contribution to the Santa Cruz Island Project will help provide for continued research, educational programs, and general island stewardship.



# The Nature Conservancy

A private, non-profit membership organization, the Conservancy was incorporated in 1951 in the District of Columbia for scientific and educational purposes. Since its inception the Conservancy has preserved over 2 million acres – including forests, swamps, streams, prairies, deserts, marshes, and mountains – throughout the United States, Canada, and Latin America. It has focused significant efforts upon the protection of islands and island groups, including preservation of Virginia and North Carolina Barrier Islands, Maine coastal islands, and the San Juan Islands in Washington State.



# Join The Nature Conservancy

Your contribution of \$10 or more to the Santa Cruz Island Project entitles you to all regular member benefits of The Nature Conservancy including a quarterly newsletter on the Santa Cruz Island Project and access to over 30 preserves in California.

Enclosed is my special contribution of \$ \_\_\_\_\_ for The Santa Cruz Island Project.

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_

Please send this form with your tax deductible check payable to The Nature Conservancy / Santa Cruz Island Project, 213 Stearns Wharf, Santa Barbara, CA 93101.



uth, J  
1939

Journal

56

Santa Cruz Island 25 mi W of Santa Barbara, Santa Barbara Co., California

21 Mar Of salarini sandwich, canots, fijians and steel  
Ta we head w to Coches Mts. It was a  
2½ hour ride up over the crest of the island to  
a beautiful blue bay immediately w of the station  
We climbed ~1300 ft to ridge in middle of the  
island then down ~1½-2 mi to the bay at sea  
level. The red soil is stiff the pale is shale  
the N part of island come from LA the S from  
San Diego. There was plenty of Baccharis with  
Bewicks Wren, Orange-crowned Warbler. Bird  
very secretive. The Scrub Jays are huge and brilliant  
their bills are 2X normal. They are very common.  
Red-headed Squirrels in Eucalypts at station, Acorn  
Woodpeckers in the live oaks and Northern Flickers  
round out the picid representatives. Saw an  
Amer. Kestrel also in Eucalypts, No doas too. The  
Bewicks Wren sound very much like say Sparrows.  
There is a small creek that winds its way around  
the trail toward Coches. Willows, Pepper trees and  
Baccharis line its edges, I believe orange-crowned  
warblers were in this area. Rufous-sided Towhees  
were in the oaks and chaparral. Along the stream  
at dusk I thought I saw a tail-tuck goose  
low thru the vegetation. All the avifauna seen  
decidedly shy and hard to see. Once we  
reached Coches Bay we walked N along  
the shore ~500yds and did some tide



Mr. J.  
1789

# Journal

57

Today, we traveled W to Forney Cove (a 2 hr drive). We left the station at 9:00 AM we traveled along the 3 ridge road. Saw Spotted Egret today with 2 Northern Ravens, many American Kestrels.<sup>(>20)</sup> Saw a pair of Kestrels perched on a telephone pole. Along the River bed I saw Song Sparrows and Rufous - crowned Sparrows. Rufous are large Brown Towhee - spurs. The habitat of the sparrows was dry stream bed with Mimulus, Baileya, Pepper Tree, Mesquite (which was blooming) lavender with tall multiple flower affairs), California Sage, and scrub oak. Fl



16th, J  
1935

Journal

53

Santa Cruz Island 25 mi W Santa Barbara Santa Barbara Co California

21 Mar Sparrows were on the Baccharis predominantly.

I heard field soy sparrows calls at good chips.  
The birds were small with dark plumage.

I also saw some Soy Sparrows in the old cattle barn area just E of Fornay Cove Ranch House.

Rob was at the house he said that Nature Conservancy had censused the pigs and that the estimate was +10,000! The Nature Conservancy is plotting extirpation but Rob is a ranger & fanatical of hunting traps so he is uncooperative. In the Beechey Pines along the ridge I heard Rufor-sided Towhees, Scrub Jays not much else. At Fornay

cove there was short grass with golden flowers and prostrate Baccharis. Horned Larks and Water Pipits were prevalent on the plain. Down

by the ocean, Black Oyster Catchers (4),  
<sup>2 spec.</sup>

Western Gulls, Pelagic Cormorant (Breeding Colony)

~~Black Turnstone~~ <sup>Breeding</sup> Turnstone. As the flock (~6) turnstons

flew up from the beach there was plainly five Squeaky and a very dramatic black and white back pattern and

The Head looked black. On the jeep ride back from Fornay Cove we spotted two Santa Cruz Island foxes. These dogs were short-legged and fat.

They looked like large ~~shaggy~~ Shelties.

They were grey on back red underneath with bushy grey and black tail which was as long as the body. Face was grey marked black above.



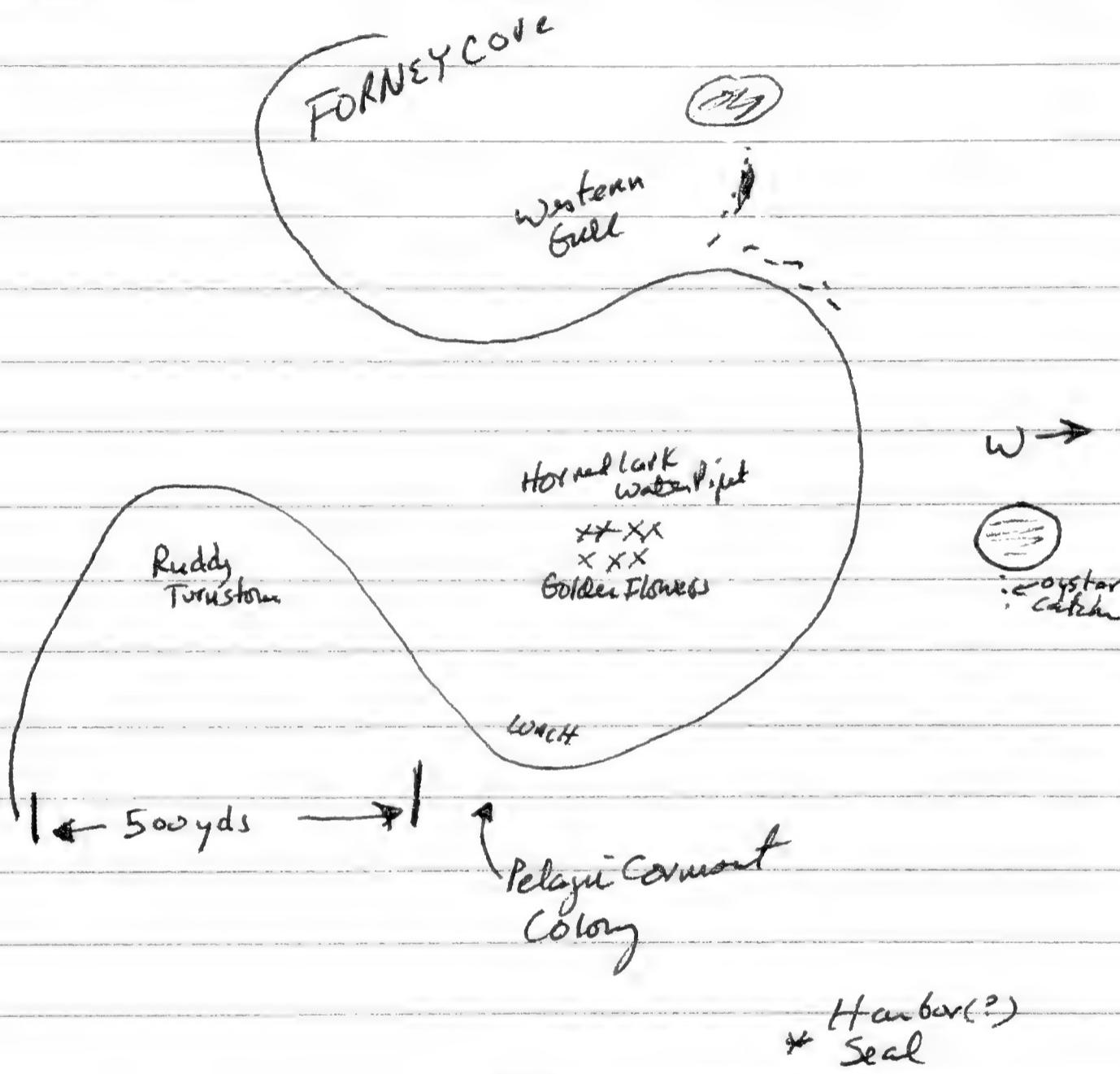
10th, J  
1989

Journal

59

Santa Cruz Island, 25 mi. W Santa Barbara, Santa Barbara Co., California

21 Mar



As we ate lunch on N pt of jutty we saw  $\frac{1}{2}$  mi. off <sup>frankly side of body</sup> shore a seal with rear ad of forward flippers <sup>strictly</sup> out of the water. There were 3 or 4 other seals with just their noses poking out of the water some were within a few inches of this oddly behaving indiv. The indiv with flippers sticking out was ~ 5' long and once or twice in 25 minutes it rolled over with just its head sticking out but these bouts lasted no more than 30 seconds a piece.

The abalone lies the shoreline. I collected



WT, Jr  
1939

Journal

60

Santa Cruz Island, 25 mi W Santa Barbara, Santa Barbara Co California

21 Mar on empty shell ~ 6" long and 4" wide with a series of 16 small 1/8" holes along the sides. Also in the tide pools we saw a Robin Fish in a 6' deep 15' long pool. Purple sea urchins, + 1x10<sup>6</sup> mussels! The beach was carpeted w/ the mussels. Sea anemones were large some 1' long and 6" wide! Ray and bob fixed chicken veggie stir fry for dinner.

Species List.

Brown Pelican	~ 8	Foxy Carr	Barnet's Wren	3
Pelagic Cormorants	50	Foxy Carr	Logophile Shrike	2
Snowy Egret	1	Foxy Carr	Water Pipit	25 Foxy
American Black Oystercatcher	8	Foxy Carr	Ring-necked Pheasant	15
Kildeer	2		Song Sparrow	5
Ruddy Turnstone	~ 8	Foxy Carr	Red-throated Sparrow	4
Western Gull	70	Foxy Carr	Western Meadowlark	~ 75
Pigeon Guillemot	4	Foxy Carr	~ Goldfinch	20 Foxy Carr
Golden Eagle	1	Hilly Road	Horned Lark	4 ♂: 2 ♀
Amer Kestrel	+ 4	Pair	Starling	40
Calif. Quail	+ 40			
Mo. Pine	+ 20			
Anna's Hummingbird	1	40		
Northern Flicker	~ 15			
Black Phoebe	2	Farm yard at Foxy		
Horned Lark	35	nesting at Carr	(3 eggs from spottable 350)	
Barn Swallow	5			
Scrub Jay	50			
Northern Rail	20			



11, J  
1939

Journal

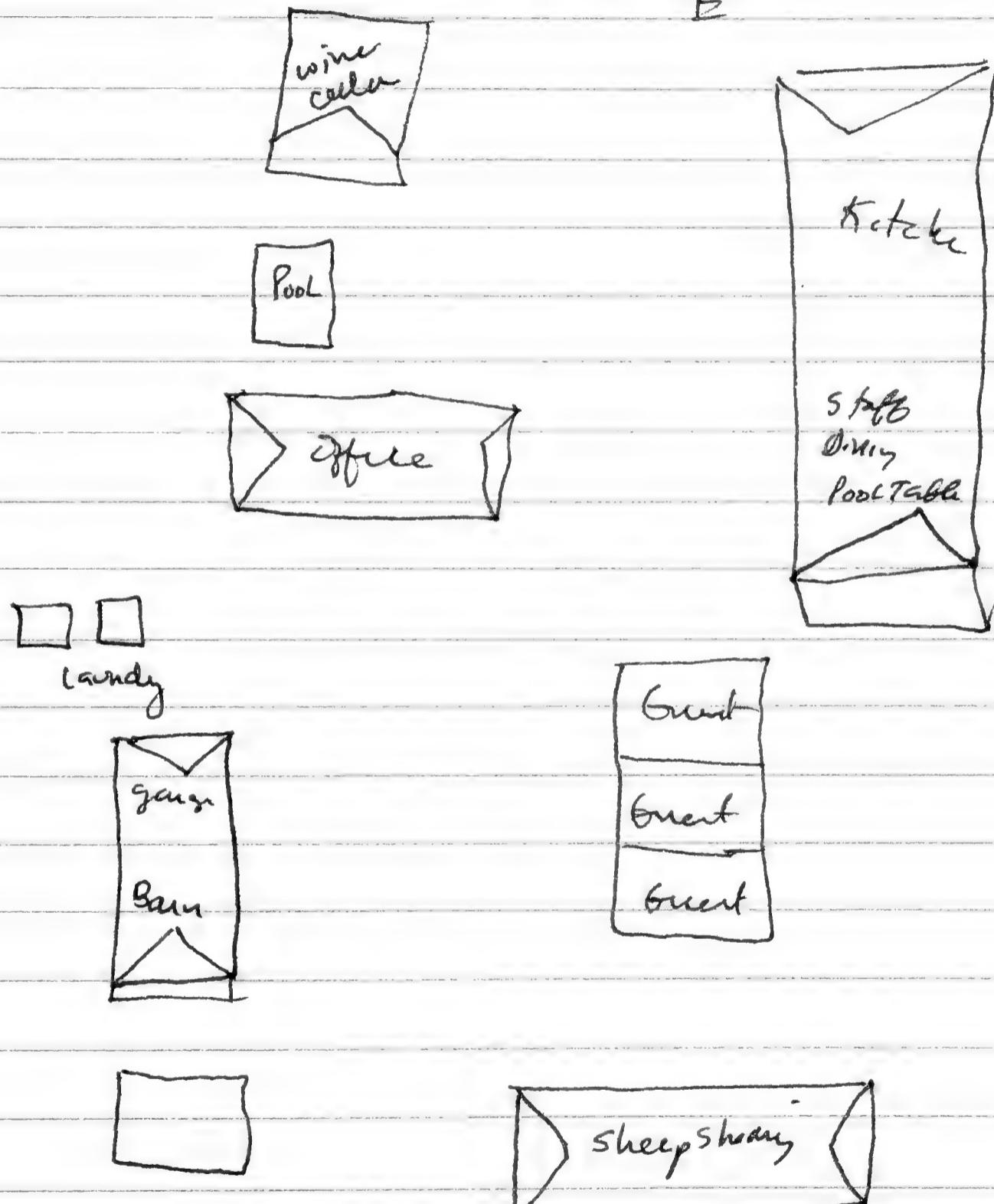
61

Santa Cruz Island 25 mi W Santa Barbara, Santa Barbara Co California

22 Mar

0830 went to Stanton Ranch 2 q field stations  
for a tour of the grounds by Brian,  
B

1  
300 yds



1000 we left W 1 mi down road to Cascadia.  
The turn N is just past the ~~too~~ high 4-wheel-  
drive hill then is a wash ad if you follow the  
300-400 yds you come to dammed off area.  
This is 1/2 mi past Eucalyptus Grove with  
Nature Conservancy Cabin. This ad I think is



10th, 1939

Journal

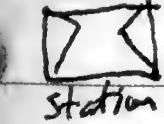
62

Santa Cruz Island 25 mi W Santa Barbara Santa Barbara Co. Calif.

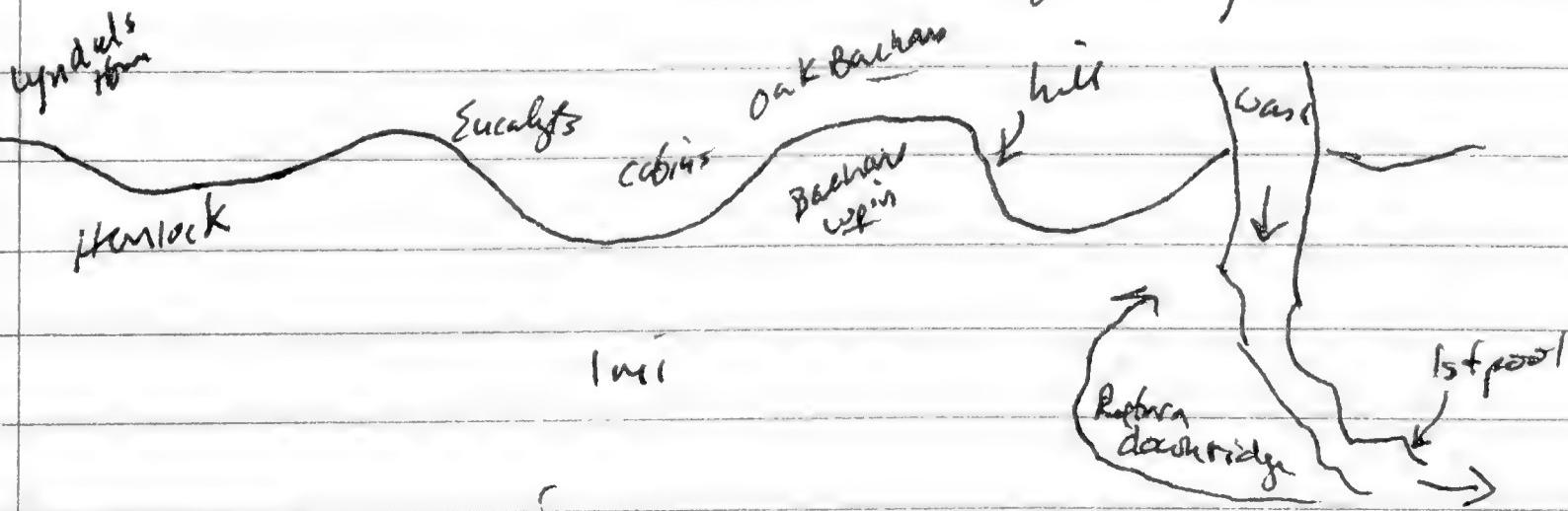
22 Mar The gorge to interpret the deeper pools. We found many (24) with beautiful waterfalls and holes in the stone. The pools on average were 10' wide and 4-5' deep. They were clear and cold. Black Phoebes were territorial displaying at the ~~the~~ rocky edge of the pools they gave 5 sharp "cheep" and another would fly in from 10' above dive bombing (Chris and I sat wait deep in a pool and ate lunch (Bun. to, Beans, Bacon, tomato and lettuce). Carrots and chocolate Chrys). Then we climbed up the gorge until ~1:30 pm then climbed out of the gorge and walked 5 back to the Road. Then we met Ken, Liz and Bob and we took another dip in the man-made pool. It was all quite refreshing. The gorge was lined with Beach hair with willowy branches and long leaves. I recorded song Sparrows, Bewicks Wrens and Daze-crowned Warblers today. Then we may ss call at Station Road and do my in the dead hemlock wood S of Station. Very dark finds. Back at station by 4:00 pm Walk to wash tanks ~30 minutes easy walking.

80% Relative humidity

Wind 10 mi



N





11th, J  
1939

Journal

63

Santa Cruz Island, 25 mi W Santa Barbara, Santa Barbara Co., California

22 Mar

Species List

♂ Golden Eagle 1

Red-tailed Hawk 1

Amer. Kestrel 6 (mostly in scrubby vegetation)  
(call - Kek-Kek-Kek)

Calef. Quail 75

Turkey Vulture 2

Peacock 2 Stanton Ranch

Mo. Dove 30

Allen's Hummingbird 1 ♂ w of station in scrub

N. Flicker 6

♂ Black Phoebe 5

downy woodpecker 2 Barn Swallow 10

Scrub Jay 12

N. Raven 4

Bush-tit 6

Bewick's Wren 1

N. Mockingbird 2

Orange-crowned Warbler 5 stage call recorded

Rufous-sided Towhee 40 "trill trill-trill"

Song Sparrow 8

Rifon-crowned Sparrow 25

Horned Lark 2 ♂ ♀ Ridge top



th, J  
1989

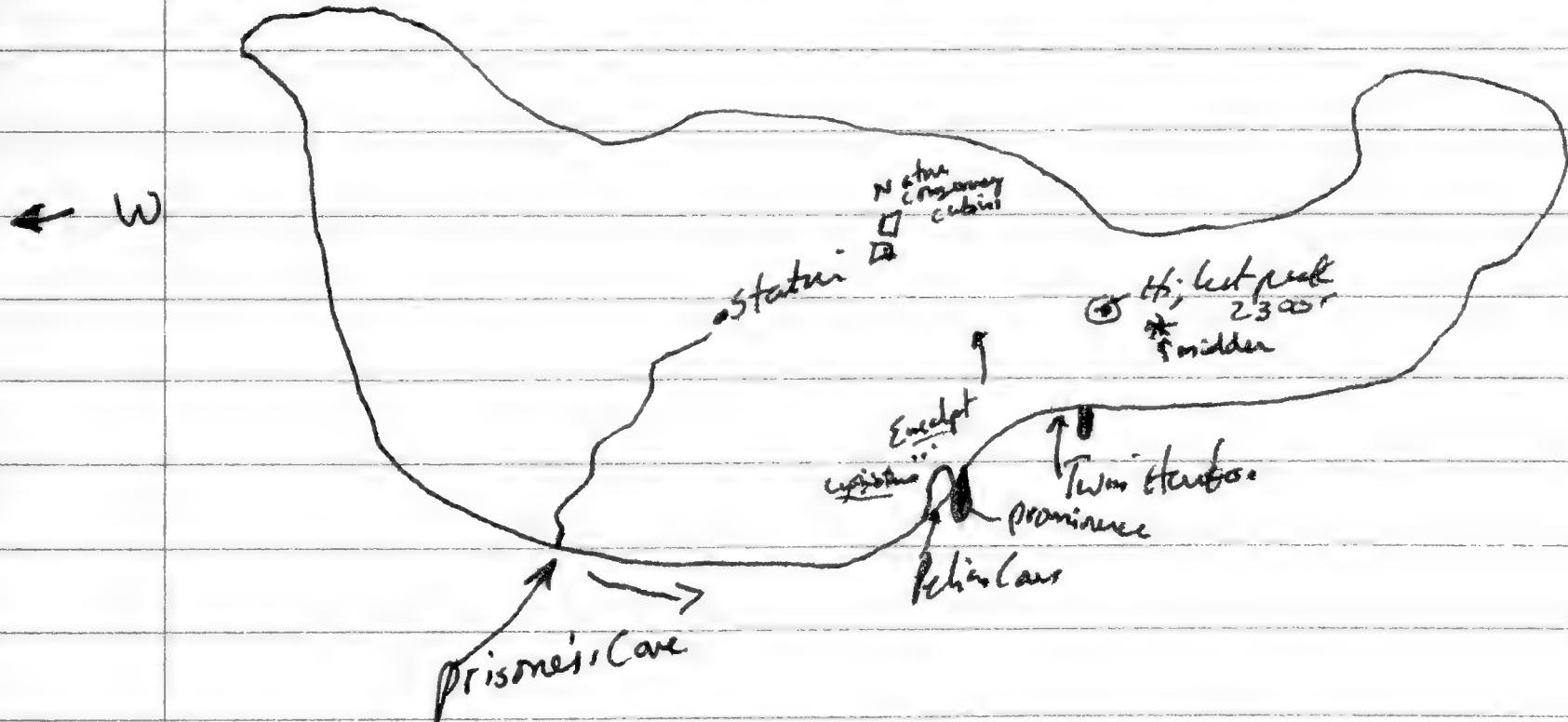
# Journal

64

Santa Cruz Island, 25 mi W Santa Barbara, Santa Barbara Co., California

23 Mar Ken Weller 0530 AM awoke to record Song Sparrows ad Orange-crowned Warbler. I walked W to the Eucalyptus grove and E to entrance to Stanton Ranch. Recorded Bewicks, Kestrels, Western Meadowlark, Calif. Quail, Killdeer, Northern Flicker etc.. It was quite foggy with no wind. Morley was good. Recorded until 7:30 AM. Ate breakfast of biscuits, scrambled eggs and Major Dickenson's coffee. Ken then rented a jeep and drove us E to Prisoner's Cove.

Eyeball <sup>Red-tail hawk</sup> Red-tail hawk spotted flying (dive) on way to Cove.



We found a sick seal at the cove. It was tremendously emaciated, 6 folds of skin on its abdomen. Ray and I headed W along the shoreline for 1/2 mi to Pelican Bay there were about 3 or 4 pelicans to traverse. We should have gone to twin harbors but mistook this spot. Pelican bay showed signs of habitation at once there was a house but now it looks like a



John J.  
1939

# Journal

65

Santa Cruz Island 25 mi W Santa Barbara Santa Barbara Co., California

23 Mar camped w/ stems and a flat rock for a tent. The fog was terrible and there were 3 seal pups harbored when we arrived at 11:20 am. From Pelicans come a *Lyonothamnus* or Ironwood Tree were found surrounding this fog. The Cereopsis was also in bloom. A seal was playing in the harbor. It looked like he swam up 200' above him. We walked 5 from Pelicans in a general direction. There were also Eucalyptus lining the cone. 4 Ravens were specking in the canopy on S side of fog. There were a few Lepis in floors. We walked for ~ 3 mi we were looking for the Cave midden Ray had explored yesterday. Because the fog was so thick he could not see off the highest peak. The midden is 300 yds below the highest peak and to the W in the Valley about 100 yds to the W. But we didn't spot since we took off at Pelicans and not Twin Harbors. We ate lunch on a peak ~ couple N of highest peak - & ate an egg and cheese torto and apple. Drank a quart of water for whole day's travel. Because it was overcast it was not too hot. We headed further S until Ray got his bearings and we walked along the Ridge W to the highest peak. The *astragalus* (legume, pea green with manjool-like yellow-flowered) were in bloom, Monkey flower were blooming yellow. We came thru a zone of



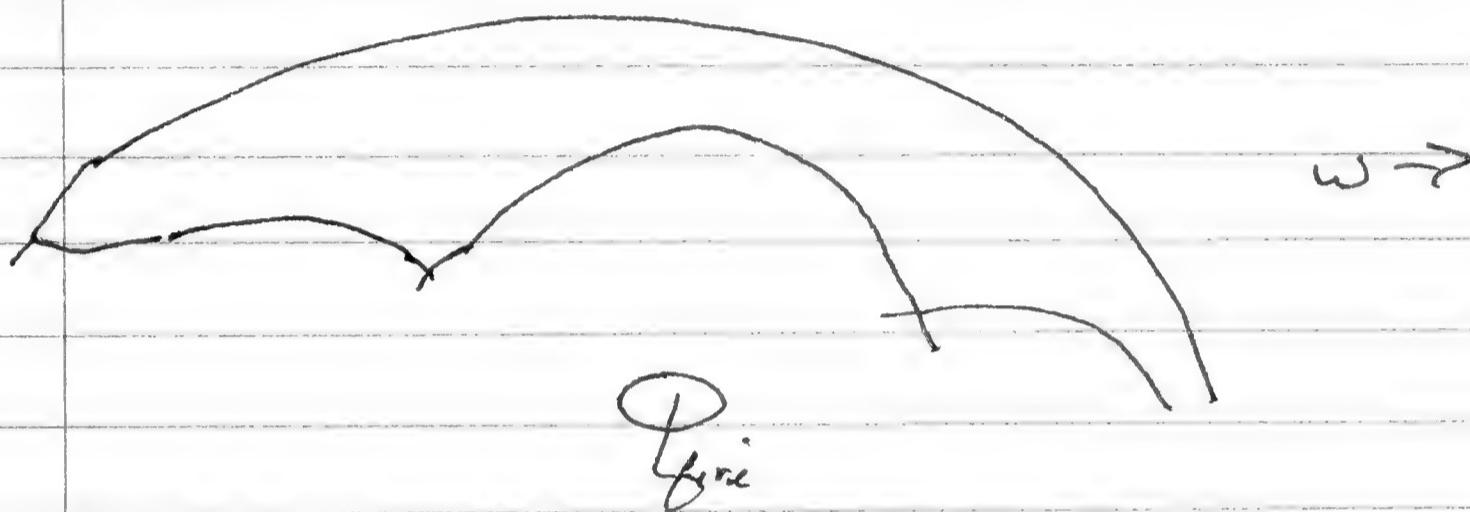
7/3/89  
1989

Journal

66

Santa Cruz Island, 25 mi W Santa Barbara, Santa Barbara Co., California

23 Mar Bishop Pass. On the high ridge there were only low growing plants (1') we walked W to the mudders at the sun broke thru at the peaks. The mudders were in a large cave 20 yds by 6' high (at entrance)



Avalone shells were all scattered over the area it was ~1900 ft in elevation just up the Valley from Town Harbor. We left the mudders at 3:25 pm and headed S just to the w of the high peak following the old fence. At the peak we spotted the Nature Conservancy cabin and headed E down slope (leaving the Valley with the fence) we went SSE until we hit the road just at the hill with the Nature conservancy cabin. Looking NW from Nature Conservancy cabin into the highest peak the mudders are to the W in the valley ~ 200 yds from top. The valley echoes tremendously ~ 5 times before it becomes inaudible. We returned to station at 5:15 pm. This was a glorious day's hike but well worth the effort. If the day had been clear, deer would have been irritated.



South of  
1985

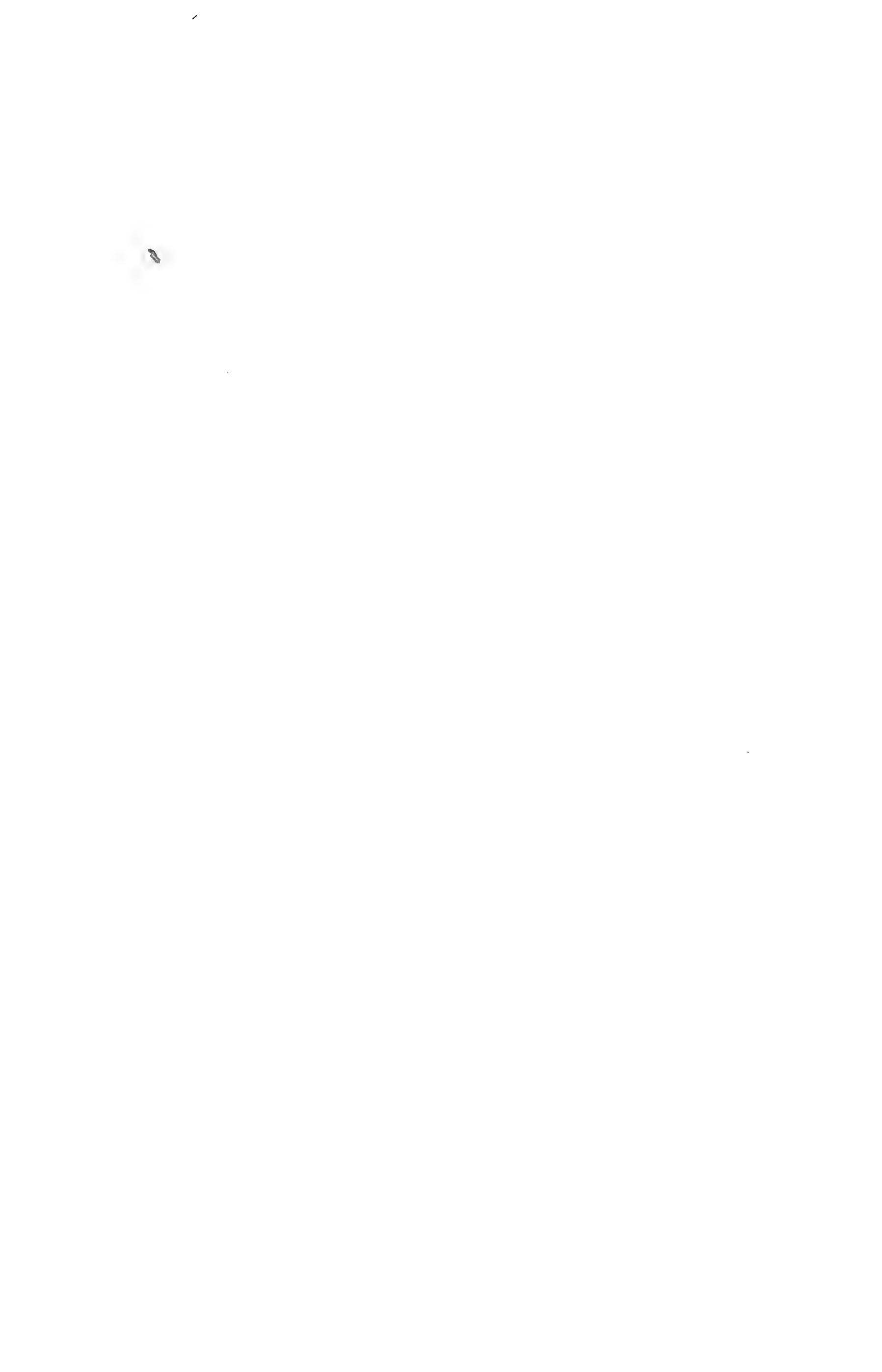
Journal

67

Santa Cruz Island, 2 mi W Santa Barbara, Santa Barbara Co., California  
23 Mar

Species list

Red-Throated Loon (winter)	1	Pismo Harbor
Brown Pelican	7	"
Pelagic Cormorant	6	
Black Oystercatcher	2	Pelican's Harbor
Kittiwake	1	steamer
Western Gull	6	
Pigeon Guillemot	2	Pelicans
Golden Eagle	1	
Sharp-shinned Hawk	1	Pelicans
Red-tailed Hawk	1	
Osprey	1	Pelicans
American Kestrel	3	
Peacock →	1	Ridge
California Quail	100	Ridge
Mourning Dove	100	Ridge
Allen's Hummingbird	2	Tunnel W of Station
Northern Flicker	5	
Acorn Woodpecker	5	
Black Phoebe	2	
Barn Swallow	20	Ridge
Scrub Jay	20	
Northern Rail	10	
Brewer's Wren	35	
Rock Wren	2	H0 ~25
Blue-gray Gnatcatcher	1	H0 Pelicans in Bush
Northern Mockingbird	1	Ridge
Golden Waxwing	15	Pelicans



1st, 8  
1939

# Journal

68

Santa Cruz Island, 25 mi W Santa Barbara, Santa Barbara Co., California

23 Mar

## Species list

Orange-crowned Warbler	100
Rufous-sided Towhee	100
Song Sparrow	15 stations
Rufous-crowned Sparrow	2 stations
Chipping Sparrow	1 station
Golden-crowned Sparrow	3
Western Meadowlark	2 HD 10
Horned Lark	20 Ridge

24 Mar Chris ad I drove to King City on 101 we arrived ~ 7:30 four hours after leaving Oxnard. We ate dinner at Wild Horse cafe 1/2 mid S of King City on 101 ext wild horse rd. Not great, typical truck stop food ~ \$14.00 for 2 guys. We stayed over at The Best Western (on Broadway) in King City. Nice (\$44/night) but expensive. Yet it was clean. In the morning we drove to the Pinnacles taking 6-16 off of 101-N. Very nice, but it was raining so we didn't go in.

25 Mar

Russell Lee Rd. 2 mi NW of Aguirre, Santa Clara Co., California

5:50 am left home for Russell got out at sunrise, it was overcast, misty / rainy all morning and into the afternoon. Banded  $\frac{PK}{FW} : \frac{BL}{BK}$  at the Henlock patch east (~ 75 yrs) from mulberry tree. Trapped it with bait. There is another bird in



1989

Journal

69

Russell Tree Ranch, Midway Lafayette, Contra Costa County, Calif., 1300 ft

28 Mar That area. Netted  $\frac{OK}{FW} : \frac{PK}{TL}$  at the Brush pile E of the pond. Found netted  $\frac{OK}{FW} : \frac{BL}{RD}$  at the W side of the pond. Saw and heard  $\frac{YC}{FW} : \frac{BL}{PK}$  at the territory where the 2 were taken by the hawk. I saw the hawk again today it is a Sharp-shinned not a Cooper. Nobody is regarding ♂s as yet in TYFW's old territory altho I did hear at least what I thought was a ♀. She rose up out of the brush N of the tall grass bush in the center of that territory. She responded (?) to playback. Perhaps TYFW left w/o mate? I saw both red/FW and <sup>TY</sup>PKs in the thistle patches of their woodpile. It appears they are feeding in that area just N of the hawk with <sup>PK</sup>/FW. I also saw GR/FW; OK/BK in the same area he was calling from the metal cyclone fence post just across the road (E) of the Mulberry tree. Later in the morning (11:00) I saw his supposed mate  $\frac{G}{FW} : \frac{2Y}{BL}$  at the cattail pond NW of the pond ~70yds. She was with an unbanded ♂ who called frequently. The  $OK/FW$  individual I caught at the W pond side screamed when I pulled it out of the net and also when I handled it. Heard and saw another male up the hill N of road from electric fence plot ~100yds W of cattail pond. Set up net for early morning attempt on Thursday.



17/8  
1989

# Journal

70

Russell Tree Farm, 2 mi NW Lafayette Contra Costa Co., Calif. 130 ft

30 Mar 0605 hours out at Russell, fog lefty off low

lying areas. Very cold (~40) ad wet with  
dew. Had nets ready to surround the  
cattail pond at the site N of the  
electric fence plot 100yds N of cattail.

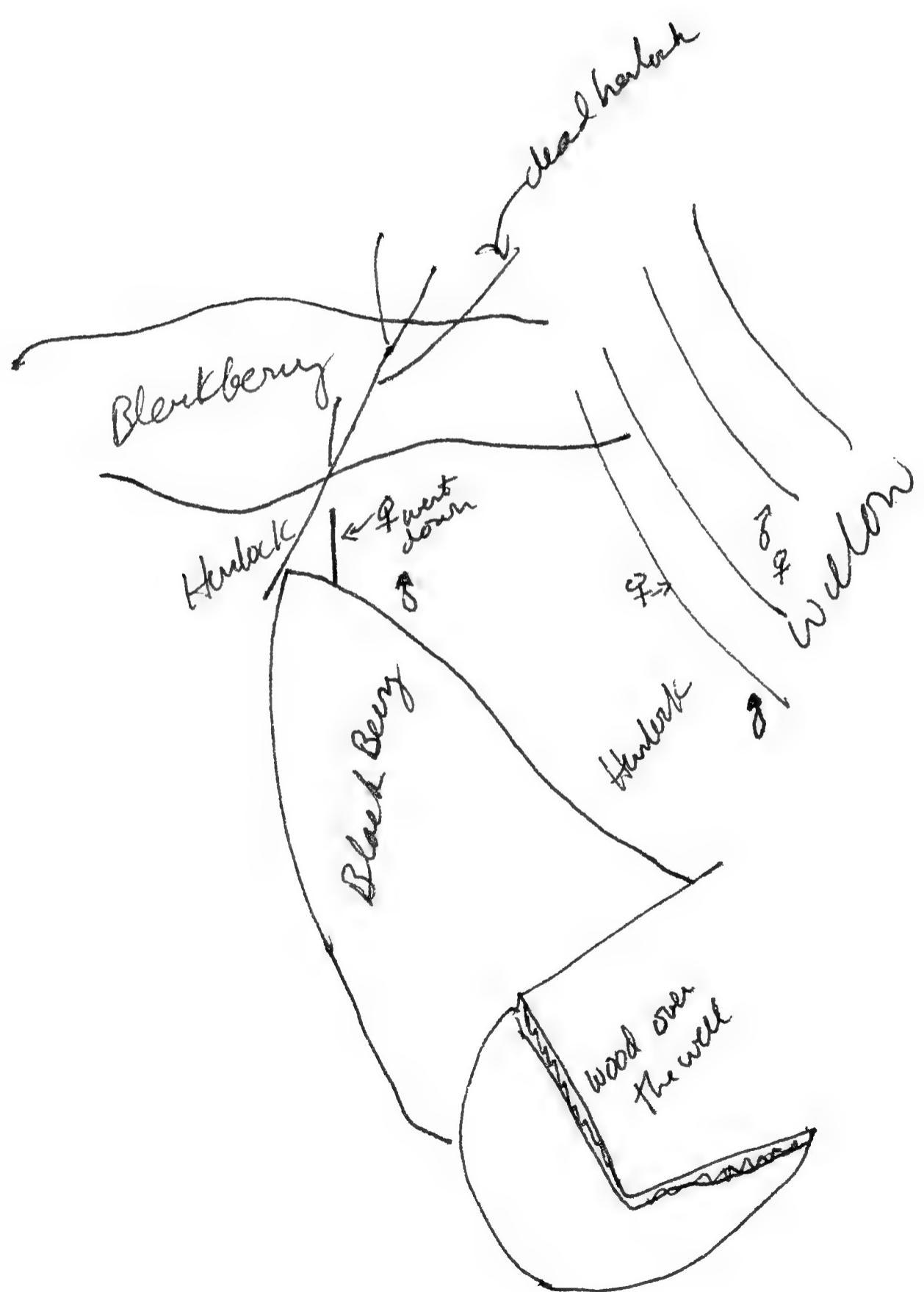
Caught the male in reedy tree areas.

$\delta \frac{w}{fw} : \frac{BK}{GR}$  is N of electric fence plot, and  $\delta$   
 $fw/GR : \frac{OR}{BL}$  is at the cattail pond with  $OR/fw : \frac{w}{BL}$ . I

saw al heard  $GR/fw : \frac{w}{BL}$  giving contact call to  $fw/GR : \frac{OR}{BL}$   
I did not hear a female with  $w/fw$ . It is a  
very bright sunny day today. By 1030 hours the  
sparrows are quiet ad non-responsiv to playbacks.

Yesterday Frank and have furred woodpiles  
Furled ad  $\frac{H}{L}/ea$ 's woodpile is gone ad so are  
many others in the valley. I saw the Red's in  
the mulberry patch east of the mulberry tree they  
seen to be paired still. Went NE along the  
road there are no ss in the heathcock patch  
where my vole last year. I called up a  
pair from the very E end of the road in the pine  
grove. Lots of DO will set up net there  
for tomorrow morning. Saw Sharp-shinned

again. This time I was up in the Bachars  
territory NW of the mulberry where  $w/fw : \frac{BL}{PL}$   
was ~~very~~ netted. There are now primarily white  
downs in that area (~12). I was standing  
by the Bachars giving "chirp" playbacks when ad



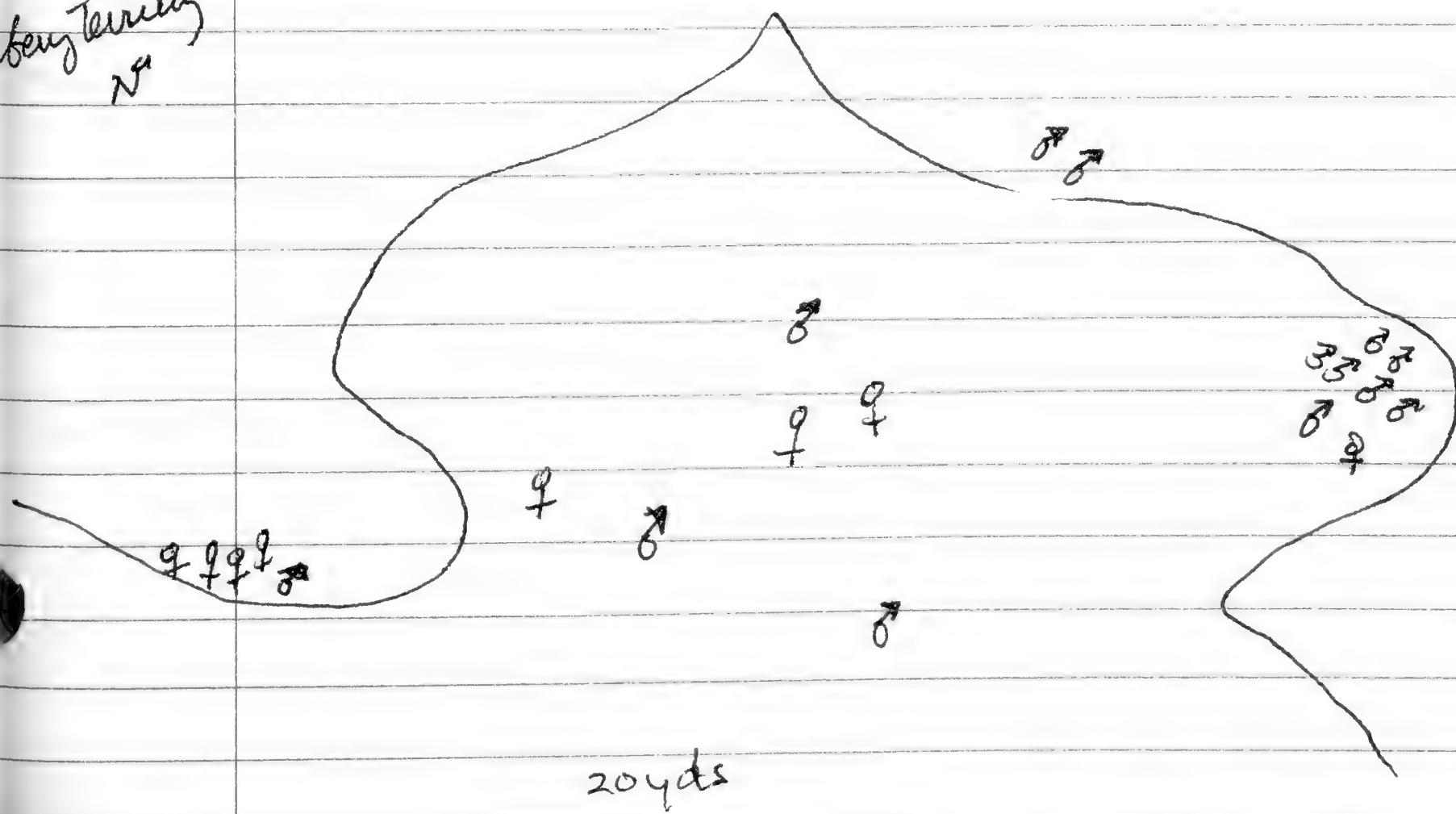
July, 8  
1999

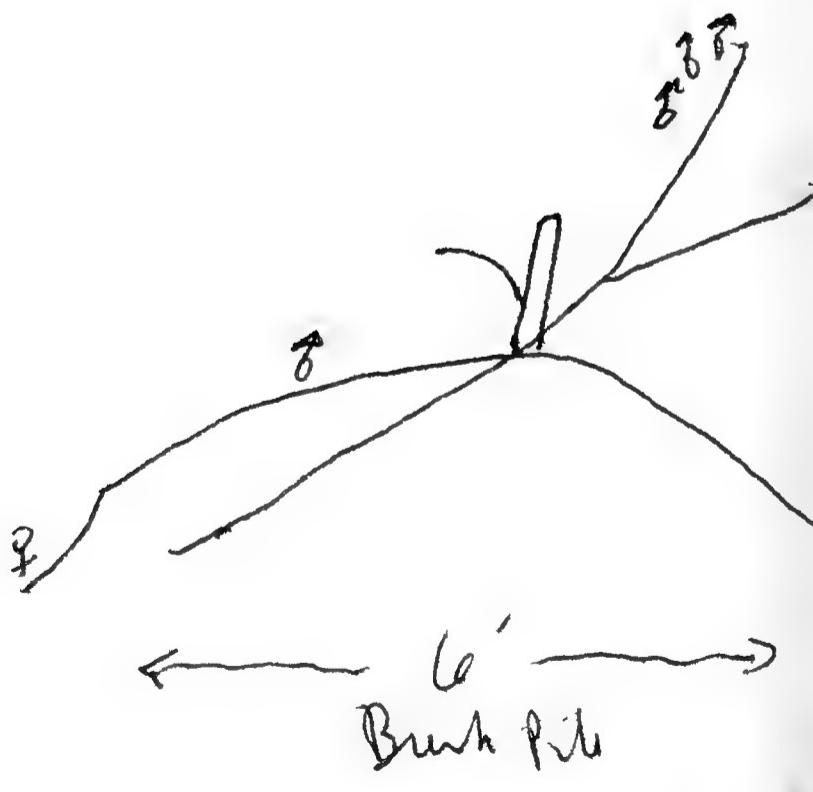
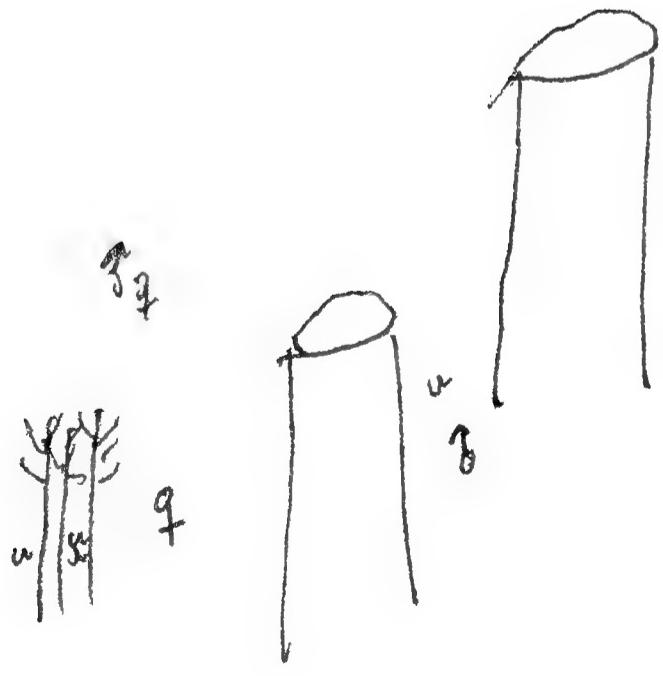
# Journal

71

Well Green Key, 2 mi. NW Lafayette, Contra Costa Co., Calif. 1300 ft  
30 Mar of a sudden the white-crowns burst from the  
ground in the brush to the Bachman. The hawk  
flew in low (18') from the NW and landed  
on a fallen log 10' to the NE of me. It sat  
there looking from side to side 30-40 sec.  
Then flew 5' north landed in grass just head  
down into grass and then flew off to fence  
post nearly the planted plot N of the mulberry  
tree. There it swooped into the green bushes  
presumably hunting the white-crowns at Goldens  
in the area. It then flew off westward  
N low (5') following the road out & into into  
the pine grove. The forester one fell log  
in there today so it is quite noisy.

Abey Territory  
No





March 1, 1989

Journal

72

Russell Free Res., 2 mi NW Lafayette, Contra Costa Co., California

30 Mar Recaptured ♂ of Mulberry. He looks fine, backs OK, wt - 23.0g.

1 April Netted  $\frac{EW}{BL} \frac{PK}{4L}$  ♀; ad  $\frac{EW}{BL} \frac{PK}{6R}$  at the W side of small pine grove. Fly were netted ~1000 hours. That sets set up at the far E most large pine grove with circle drive but only saw EW/PK. He looked like his head had not been gnawed. He was calling at flysy but left foot would not close around branches ad he seemed to wobble in the brush.

I left the sets up in hopes of catching his mate and the other pair I heard at the circle drive yesterday. Many Bewicks were on the N side of the Lagoon. Today it was clear early in the morning windy ( $10-15 \text{ mph}$ ,  $245-50^\circ$ ) at 0630 hours it has warmed up and wind has died down but little overcast, and seem more active now. 11:42 am I am observing BK/FW's at the brush pile to see if I can find their nest BK/FW: PK/4L ♀; BK/FW GR ♂ or ♀. ♂ was calling from top most dead snag of the pile at ♀ emerged out of the low lying vegetation S of the 2 tall trees. She flew to S most edge of pile at submerged into it. I can hear OK/pw:  $\frac{PK}{20}$  calling from W side of pond. Sounds like he doesn't have a mate yet. I walked along the S ridge road this morning past creek due to central valley. Not very good but lots ad lots of Poison Oak. 12:10 pm saw lots individuals on weed piles



11/9  
1989

Journal

73

Russell Fire Res., 2nd NW Lafayette, Contra Costa Co., Calif 1300ft.

1 April

They emerged from wood pile and flew to low lyij vegetation  
b/w 2 lyij trees. ♂ Nuttall's is powdery ad caly from <sup>gle-"</sup>  
lyij trees surround the wood pile. His pink red head  
is brilliant against strongly banded back of black ab white.

12:21pm both indw. flew from N 20yds onto the trash pile  
male <sup>G+</sup> for sally female disappeared into w side of pile.

♂ chased a dark-eyed junc from S gear to trash pile.

12:48pm indw emerges from low lyij veg momentarily then disappears.

I heard some "chirping". 12:55 again indw except for  
5 sec of low lyij veg fly N ~ 5' and disappears with  
a few chirps. I'm stopped observation - failed California  
Valley Mammals.

2 April

0625 hours arrived at Russell, very warm ~ 55 no  
long underwear necessary. I tried to net FW/BL <sup>W</sup>/<sub>BL</sub>'s  
mate but to no avail. All activity ceased ~ 1000  
hours. At 0725 I observed ♀ <sup>FW</sup>/<sub>BL</sub> <sup>YL</sup>/<sub>OE</sub> with nesting material  
in mouth. She was diving down near Bacham by the  
old barbed wire fence. Tuesday I found the sharp-shine  
nest in the pine cone in the draw E of FW/BL.

They have built on S edge 20' up in conifer  
a 25yds ESE of Eucalyptus. I saw at least 4 both  
indw. One of them brought a dough to the nest. I also  
saw 8th indw fly over this draw ~ 0830 - 1030 seemed  
to me. Heard 2 or 3 calls during this period.

Tuesday, I saw <sup>FW</sup>/<sub>AK</sub> <sup>EO</sup>/<sub>BL</sub> acty like she was going to  
pull up grasses but I never saw her actually do it.



March, 8  
1989

Journal

74

Russell Tree Reservation, 2 mi NW Lafayette, Costa Rica Co., elev 1300ft.

6 April 1840 hours observing  $\frac{PK}{FW}$   $\frac{BL}{BK}$  and mate in hemlock. He was "sipping" as if she were on eggs. At one point male called from SW corner of hemlock. It was standing on W center. Female arose from S side part the center walked (it seemed) ad flew 10 yds NW to edge of hemlock tree where she called as she held her wings out in a feisty posture. Toward the end of the watch I heard W of the path 35yds. When I did a ♂ called, a ♀ answered from W edge of hemlock and also a response from thistle patch where  $\frac{PK}{FW}$ 's had been out. It seemed that at one time or 2 possibly there were 3 ♂'s around in the hemlock.  
1847 hours ♂  $\frac{FW}{PK}$   $\frac{WH}{PK}$  was in small hemlock patch just E of mulberry (across the road). An adn from W side of hemlock gave ♂ called and this adn responded w/ a ♀ call.  $\frac{FW}{PK}$   $\frac{WH}{PK}$  is in the small thistle patch. Both FW/PK's in small thistle. ♀ came up and responded to ♂'s call just after 6:30; thistle patch  $\frac{4}{4} \frac{1}{2}$  is ♀. 1935  $\frac{4L}{FW}$   $\frac{BK}{PK}$  calling from area where adn just landed. I also heard an adn call from  $\frac{BK}{PK}$  2nd site but not seen also.



4th, J  
1989

Journal

75

Russell Tree Reservation, 2 mi NW Lafayette, Contra Costa Co., Calif. (3100 ft)

April

0624 hours arrive at Russell, too late to catch FW/BL <sup>wkly</sup>  $\frac{1}{4}$  mate again but she eluded me.

She has been calling from S end of Posgrave and also giving calls in large conifers

I did not venture (2) at Golden-crowned Sparrow. Her behavior would indicate she is nesting. At 0800 hours I took down the net and started obs. on FW/BL  $\frac{1}{4}$  ad  $\frac{1}{2}$  pair.

They were very quiescent, only in thistle patch until 0925 hours. It was quite warm after this morning but not so humid as yesterday there is a good breeze. Saw Sharp-shin fly W over the canyon.

Also saw Red-tailed fly 0730 hours in canyon. At 1000 hours I found the song Sparrow nest of FW/BL pair. I had observed ♀ with nest material as I tapped along thru their territory. Pair became agitated flew in from thistle patch as unbeknownst to me I roared the nest. I walked beyond the nest at 25 minutes birds were quiet. I decided to walk back (S) 15-yds to where I had lost the ♀ with stuffy in her mouth as I did, I spotted the nest. 1 $\frac{1}{2}$ ' high off ground in low lying prickly bush ~2 cubic feet. The bush is 2 $\frac{1}{2}$ '  $\times$  w of tangled wire where I flagged. The area is opposite the small pine gone. I put dog-ways around nest.



Sept 18

1999

Journal

76

Russell Tree Pgs. 2nd; Nw Lafayette, Contra Costa Co., Calif. 1300 ft.

7 April

There were no eggs. I presume it is almost finished since cup was sturdy and well formed, but ♀ did have material with her this morning.

9 April

1700 hours bright sunny ~ 85°F looking for BK/fw's pair nest. Heard ♂ sing from succeed grove of pines 30 yds S of pond. I scared up the ♀ from the W & most deciduous (poplar) tree. There was what looked like a start. In retrospect the ♂ started calling when I got within 5 yds of nest. I had started the search at the wood pile but found nothing and got no response. I checked the tree-horn tree and metal pipe nothing, checked Redwood 20 yds SW of pile nothing. So perhaps that dog + all so much looking in the pile plastered them. Went over to BK/fw's N side of pond. Heard whom I thought was his sing and consort w/ unmated males. I scared them both up out the henback (dead) that lines the W side of pond. I flagged the NW corner of what I thought looked like a start with pine needles. They gave some sippy while I was in the area but only for minute or so. At BK/fw's area there was no sippy other start seemed further along. In both areas there was lots of white-wash.

$\frac{Wh}{Fw}$ , GR  
BSC

Road Observatory

X X

X X

X +

X

X X

X ♀  
Beavers

X me

♀ ♂  
Oaks

O C

♂ ♀

a. X.

Red Fox

♀ ♂

♂



Road

th. J  
1989

Journal

77

Russel Tree Reservation, 2 mi NW Lafayette, Contra Costa Co., Calif. 1300 ft.

10 April      At 1606 hours came out to do observations on <sup>\*Wh Fox</sup> ~~Wh Fox~~ <sup>♂</sup> ~~♂~~ in the draw N of the electric fence across the road from the cocktail pond. He was with his ♀. Last night I heard her call from the by Bachman on W side of draw also a male hawk 5E of there 30 yds. Today when I climbed up the middle of the draw the ♂ called from the oak grove at S responded from the willow thicket just S of oak grove on E side of draw. I positioned myself directly S of the willow thicket and the Bachmans they are about 45 yds apart. I scared up a Red Fox as I climbed the draw. It was lying in the tall grass on a foot path I had made last night. It was a long fur w/ black ear tips, fur was golden colored. There was white around the jowls. At first I thought it was someone's old house pet. But then I saw the bushy tail. It looked back at me while I watched it around the W side of the draw. It walked NE along the ridge top 20 yds into the draw. In all it took 15 minutes to go 250 yds.

I saw Western Bluebird pair today, at a by pass. Saw just Red-winged Blackbird on the 8th. Orioles have been back since 3 April when I saw 2♂'s calling in poplar near electric fence plot. Temperature was cooler today in 70's ad now 1832 is chilly for short sleeves ~65



th, J  
1939

# Journal

78

Burzell Flickers, 2nd New Lafayette, Contra Costa Co. Calif 1300ft

13 April ~~F<sup>W</sup>/BL~~ <sup>PK</sup> ~~PK~~ ad ~~BL~~ <sup>PK</sup> ~~PK~~ had four eggs to transfer  
egg 1 length 18mm  
width 13  
weight 3g  
egg 2 length 18  
width 13  
weight 3g

egg 3 length 17  
width 14  
weight 2g

egg 4 length 18  
width 13  
weight 2g

F unfledged

♂ 2031-8908 <sup>PK</sup> ~~PK~~ <sup>PK</sup> ~~PK~~  
~~FW~~ ~~BK~~

egg 1  
length 20  
width 14  
weight 2.5g

egg 2  
length 19  
width 14  
weight 2g

egg 3  
length 20  
width 15  
weight 2.5

egg 4  
length 19  
width 15  
weight 2.5

Three eggs from <sup>FW</sup> / BL nest were traded with  
four from <sup>PK</sup> / FW. The 1st egg of FW / BL was  
broken by me. <sup>FW</sup> / BL eggs were smaller and had  
more rusty colored spots concentrated more on the  
end than <sup>PK</sup> / FW. During the transfer I lost 3  
House Sparrow eggs in the <sup>FW</sup> / BL nest. When I  
returned one was missing. The eggs had been broken



10th, 8  
1981

Journal

79

Russell Inn Res., 2 mi NW Lafayette, Contra Costa Co., Calif 1300ft

3 April

The three ad they were cracked in some places.  
I wonder if the ♀ tossed the egg out or was it a  
jay. I checked <sup>8<sup>th</sup>/</sup>EW's nest in the small sunken  
meadow the deciduous tree, & had one egg  
today. I put down dog away. ~~yesterday~~  
Tues (11 April) I found a new pair ad their  
nest 5 of EW/BL <sup>way</sup> 20's territory. It was up the  
ravine ~100 yds. Nest was in some prickly  
rosineras ~2' off the ground it is ~5' NW of  
the flag. There were no eggs. and I opened fence  
with rusty material in mouth in the morning. Yesterday  
I spoke with Mark Reynolds at Sogden said  
road was clear for 1st time all year. Birds  
were singing ad that Forest Service will do a  
in Penny Park near station see 2d. When I went  
back to EW/BL's territory with the transplanted eggs &  
scared up an adult from 20yds S of nest under  
a thistle. Found mulberry tree pair next. Tree  
wooded well due ENE 6'. I flagged a tall  
Thistle (2½') just 8" S of the nest. It was  
~1½' off ground. 3 eggs. On the 11th of April  
I saw the Sharp-shinned Hawks copulating  
in the pine some about 20yds NE of nest  
tree. Female also pulled at branch as if she  
was still looking for nesting material.



17/19  
1989

Journal

80

Willow Res., 2 mi. NW Lafayette, Santa Clara Co., Calif. 300 ft.

14 April

1100 hours checked transfer nests. 4 eggs were definitely warm in <sup>FW</sup> BL's nest. Didn't see ♀, heard her respond to ♂ as I left. ♂ called as I approached nest. <sup>PF</sup> FW's ♀ was flushed from transfer clutch. Still 3 eggs, definitely warm.

April

1030 hours Wendy Roberts and I went out for obs. I positioned her at the cattail patch. She saw ♀ at 5 and also thought she saw ~~♂~~ <sup>♀</sup> an unpaired ♂ coming or say in the territory. I tried to set the pair up 5 in lawn from <sup>FW</sup> <sup>PK</sup> ~~BL~~ as no luck. Checked nest had 3 cold eggs. Heard ♂ and ♀ in the vicinity.

17 April

1700 hours tried to find FW/BL's ♀ but no luck yesterday I had heard her near the big conifer SE(10') but not a sound today - Heard ♂ FW/BL call while I was in area. Saw and heard <sup>3C</sup> <sup>PK</sup> <sup>PK</sup> FW giving sip-sip at first calls also saw unpaired ♀ respond w/ call to his song. She was in the tuihls N of nest. Saw GL/fw in this - he calls too. Have not seen Red



1989

Journal

81

Saxton Creek Field Station, 1 mi W Hobart Mills, Nevada City, Calif

18 April Arrived at the station 4 hours after leaving Oakland. Car believed OK, I ran the AC to make sure I could start it.

Seen to be fine. Mark Reynolds and "Shorty" are running the station this year. Very nice, they stopped by at dinner we chatted about our research. Shorty has worked on juncos in Poppy's at Hawksby. She studied in Eugene. Mark worked with Walt at Hawksby on Magpie Fly no interested in Mountain Chickadees or Stellai's Jay now. Mark mentioned I might think of Senoia as a possible field site (contact Kelly<sup>(?)</sup> Corbett) for more info at 1:20pm I set out 2 from the kitchen I crossed to S side of river at foot bridge at E end of meadow. I met song Sparrows about every 600yds. I tagged 6 ♂'s I saw ♀'s but they were quite quiet, I only heard one call. But they were out and visible. Most of the ♂'s were very excited by the tape and would "sing" a lot.

Species List

Northern Flicker 2	Brown Creeper 3
Mourning Dove 2	Yellow-rumped Warbler 2
Stellai's Jay 1	Song Sparrow 10
Amer. Robin 10	



Sept, 8  
1959

Journal

82

Kinsell Game Lg., 2 mi. NW Lafayette, Colorado Co. Colo.

2 April 10:44 AM transfer of eggs <sup>+w</sup> BK <sup>R</sup> BC ♀ ad  
<sup>O</sup> <sup>w</sup> BK <sup>R</sup> BC ♀ ad. Found nest this morning  
4 warm eggs

egg 1 width 21.71

width 14.95

weight 2g

egg 2

length 20.82

width 15.06

weight 2.25g

egg 3

length 21.11

width 15.29

weight 2.5

egg 4

length 21.14

width 15.19

weight 2.5

Waited to switch with <sup>B</sup> <sub>C</sub> / <sub>F</sub> at mulberry but nest had at least 2 young ( $\frac{1}{2}$  - 2 days old) and 1 egg, so switched with unmarked pair above <sup>O</sup> <sub>R</sub> / <sub>F</sub>. Found 4 warm eggs

egg 1

length 19.82

width 14.29

weight 2g

egg 2

length 19.90

width 14.52

weight 2.0g

egg 3

length 19.45

width 14.46

weight 2.0g

egg 4

length 20.16

width 14.25

weight 2.0



11/9  
1989

Journal

83

Russell Creek, 2mi NW Lafayette, Contra Costa Co., Calif 1300ft  
25 April 0711 hours overcast, drizzle ad cold (40-45°F)

The grass was crunchy from frost possibly.

Observed  $\frac{8}{4}$   $\frac{8}{4}$   $\frac{8}{4}$  at his unmarked ♀.

Found empty fresh nest at N end of drainage attached to a live hawlock. Flagged dead hawlock 3' to SW. At ~~dog away~~ I had observed them the

morning the ♂ ad ♀ foraging ad flying from nest site to 20-30yds away. They stayed in close proximity to one another. ♂ vocalizing from everywhere but 10yd radius of nest. Lazuli flew into nest area ad ♂ cleared it away.

♀ did not vocalize much but she flew around a lot. At 0930 + left unpatented territory ad went to the pond. I saw  $\frac{8}{4}$   $\frac{8}{4}$   $\frac{8}{4}$  singing from woodpile ad flying S of that pile heard no female also saw one of the  $\frac{8}{4}$   $\frac{8}{4}$ 's on the woodpile but could not tell whom.

at 1030 started off on  $\frac{8}{4}$   $\frac{8}{4}$   $\frac{8}{4}$  at his unmarked ♀. Found nest with 2 cold eggs on W side of pond in hawlock. Flayed SW nest 3' ad dog-awayed. The nest on the N edge of the mulberry patch seemed sunny is still empty. Hasard seen red couple for at least one week!



P 18  
1989

Journal

89

Small tree fern, NW Lafayette, Contra Costa Co., Calif 1300 ft

27 April Checked nestlings at mulberry bush. There were 2 well feathered ad one pipped egg that looked very old ad dry. One of the nestlings pipped out of nest, head cally to of later in the day - 6 pm. Banded the other nestling 1431-14517 1B <sup>BK</sup>/~~PK~~, tarsi are very fat. Female was also caught 84 fw 0<sup>1</sup>/4L, she looked very strong. I checked nestlings at 8<sup>1</sup>/2 fw ad found 2 nestlings with partially emerged pin feathers ad one warm egg. Did not band. Checked nestlings at <sup>fw</sup> 1BL found 4 feathered nestlings with parents in attendance banded 2031-08934, <sup>BK</sup>/<sub>RS</sub> 1431-14518 <sup>BK</sup>/<sub>RS</sub>, 1431-14519 <sup>BK</sup>/<sub>RS</sub>, 1431-14520 <sup>BK</sup>/<sub>RS</sub>. Parents chirped as I returned nestlings it took 25-30 minutes to band all 4.

8 April Checked 0<sup>1</sup>/fw's nest on W side of pond 3 warm eggs flushed up & unmarked.

9 April Banded nestlings at 8<sup>1</sup>/2 fw in fern patch E of Mulberry! 1431-14521 <sup>PK</sup>/<sub>RS</sub> ad 1431-14522 <sup>PK</sup>/<sub>RS</sub> both were 10<sup>1</sup>/2 just fully pinnated no feather emergent. Head/bust shot some down, one egg left, pipped ad worn, but could not put # on it. Found 0<sup>1</sup>/fw 0<sup>1</sup>/B K's nest in Radish patch E of mulberry, 4 warm eggs, flagged ad dry - away



uth, J

1989

# Journal

85

Russell Ranches, 2 mi NW Lafayette, Contra Costa Co., Calif. 1388 ft

29 April Obs at 2 sides of pond where BK/Fw's used to sit. Saw ♂/Fw ♂/PK or (cally) BK/Fw ♀/PK and an unmarked male flew into nest while I was looking for nest on SE corner of fence row. It sounds like there may be a new ♂ N of BK/Fw but S of pond. Also saw unmarked ♂ singing in back of Frank's farm.

2 May

Egg transfer ~~nest~~ ~~to~~ ~~BK~~ to ♂/Fw ♂/BK

Wh/Fw BK/BK eggs checked nest no eggs no ♀ in sight, nest had deer hair lining. It was cally near electric fence at S end of draw.

Will try ♂/Fw BK/RD's nest - Flecked ♀

egg 1

length 20.43

width 15.19

wt 2.25g

egg 2

length 19.50

width 15.26

wt 2.25g

egg 3

length 19.65

width 15.24

wt



11th J  
1989

Journal

86

Russell Inn les. Zuni Mo Capayte, Contra Costa Co, Calif 130 ft.

7 May G<sup>g</sup>/FW OR/BK's eggs

egg 1

length 18.54

width 15.03

wt 2.25g

egg 2

length 18.14

width 15.89

wt 2.25g

egg 3

length 17.31

width 15.09

wt 2.0g

had nubby surface

egg 4

length 19.08

width 15.30

wt

Found new male in draw E of <sup>wb</sup> FW  
he was singing this morning. I netted him  
at 1800 hrs no ♀ around RD/FW BL/PK

BL/FW RD/GS was not a mulberry ♀ was  
feedy fledgling ad OR/FW OR/BK was singing  
and chirpy all chirpy from ~~the~~ his territory.

4 May PK/FW's nest fledged. I banded ♀ <sup>AD</sup> FW <sup>BK</sup> RD  
This fledgling occurred 5 days after they had  
only fin feathers? Checked OR/FW's nest nothing  
in it. Heard ad saw OR/FW ad mounted ♀  
in mulberry no sign of BL/FW ad fledgling.  
Collected OR/FW's nest. Collected PE/FW OR/BK's nest  
It was 20cm off ground in dead ferned. Cup  
is 5cm + 7cm wide. Whole nest 12cm x 15cm.



with J  
1989

Journal

87

Kunkel Ranch, SW NW Lafayette Contra Costa Co., Calif 130 off

4 May

<sup>6R/Fw</sup> <sup>0E</sup> <sup>BK</sup>'s nest dimensions: crop 6.0 x 6.5 cm  
outer: 9.5 x 12.5 cm. Banded adults  
found ♀ ad & young in nest above <sup>0F/Fw</sup>.  
Their faint is all <sup>0F/Fw</sup> on left leg. I saw  
<sup>PK/Fw</sup> <sup>BK</sup> carrying food ad ♀ is still in area  
but saw no fledglings. <sup>EW/BK</sup>'s feeding at least  
one fledgling. <sup>0F/Fw</sup> calls but no sign of ♀  
<sup>FW/BK</sup> rt by in association with many ♀ probably  
complete nesting end of week. Saw ♀ <sup>BL/Fw</sup>  
carrying food from radish to mulberry but  
have not seen fledgling.

Banded <sup>0R/Fw</sup>'s ♀ <sup>0R/Fw</sup> <sup>RW/0R</sup> she had  
a tiny brood patch. Checked <sup>0R/Fw</sup>'s nest at  
pond flushed ♀ out of nest at 5' south  
of nest. 4 eggs warm. Heard <sup>0R/Fw</sup> call

5 May

Banded 3 nestlings at <sup>FW/BK</sup>'s nest, not sure  
what happened to 4th egg. By my calculations  
these nestlings are ~5 days old. Unmarked ♀  
at pond was flushed off of 4 warm  
eggs. I could still read the #2 on  
the one egg I picked up.

8 May

collected <sup>FW/BK</sup>'s ad 2 nestlings 3rd was nowhere  
in sight.



84 J  
1989

Journal

88

~~burnt pine tree, minnow capayette, Custer State Park, S.D.~~  
10 May Checked <sup>♂ & ♀</sup> FW ♂'s nest at pond 2 1-day old chicks, 1 unopened egg labeled #2 and one almost hatched (cut all around) egg #4. Banded nestlings with one color band on each leg, left leg with orange on each

		R+part
<sup>Two at 2031, 0802"</sup> <sup>nest 2031, young</sup>	nestling 1 left <del>leg</del> black <del>leg</del>	nestling 2 <del>leg</del> <del>leg</del>
Belly pt	2.24	2.31
Bell depth	2.34	2.48
Bell mouth	1.57	1.61
wing length	5.59	7.17
tail length	.34	0.69
Tarsus	5.19	6.42
metatarsal	6.44	7.35
hallux claw	3.60	4.28
Molt	head at back downy	head, back, 2°'s downy
age	1 day	1 day
fat	sterneal	decreal
cloaca	2.91 x 1.97	3.09 x 1.43
proximales	2.04	wt 3.08

Sagebrush Field Station  
Arrived Saghen 12:30pm very cold overcast



th, J  
1989

Journal

89

Sage Creek Field Station 3 mi. NW Hobart Mills, Nevada Co., Calif. 6300 ft

12 May

egg 1

length 21.64

width 15.19

wt 2.5g

egg 2

length

width

wt 2.5g

BL  
~~BL~~ FW <sup>BL</sup> OR <sup>BL</sup> OR ♀ ad. Found nest of BL/FW, pair in low lying dead grasses and willows? ("") 2 cold eggs. Both ad. ♀ heard chirping. Flagged 3' to SW labeled the fly BL/FW <sup>PK</sup> BL. Also found ad. ♀.

14 May

Russell Ranch les. 2 mi. NW Laramie City, Calif. 1300 ft

OR OR's young 1 egg left in nest  
nestly <sup>left leg injured</sup> At ~~leg~~ closed Atleg? 2nd color <sup>3rd</sup> ~~leg~~ no leg

Belly t

3.64

3.83

3.37

Bell depth

2.89

3.30

3.01

Bell width

3.14

3.09

3.13

wing length

16.46

19.09

15.97

tail length

0.91

0.98

not out

tarsus

12.05

14.16

11.75

midtail

17.08

17.80

14.53

hindwing/claw

9.28

10.36

8.48

fat

Some fur & sternal

stomach fur

1.410 sternal, some fur

muscle

10's not emargin, broad back  
waddling, belly not emargin

belly <sup>0.95</sup>/<sub>2.06</sub> mother  
the same as #1

noth. emargin, still goes down  
head and back

wt

10.5g

12.0g

10.25g

remarks

Banked

OR X  
PK X

OR <sup>BL</sup> X  
PK X

OR PK  
PK X



March, 9  
1989

Journal

90

Russell Tree Rd., 2 mi NW Lafayette Contra Costa Co. Calif. 1300 ft.

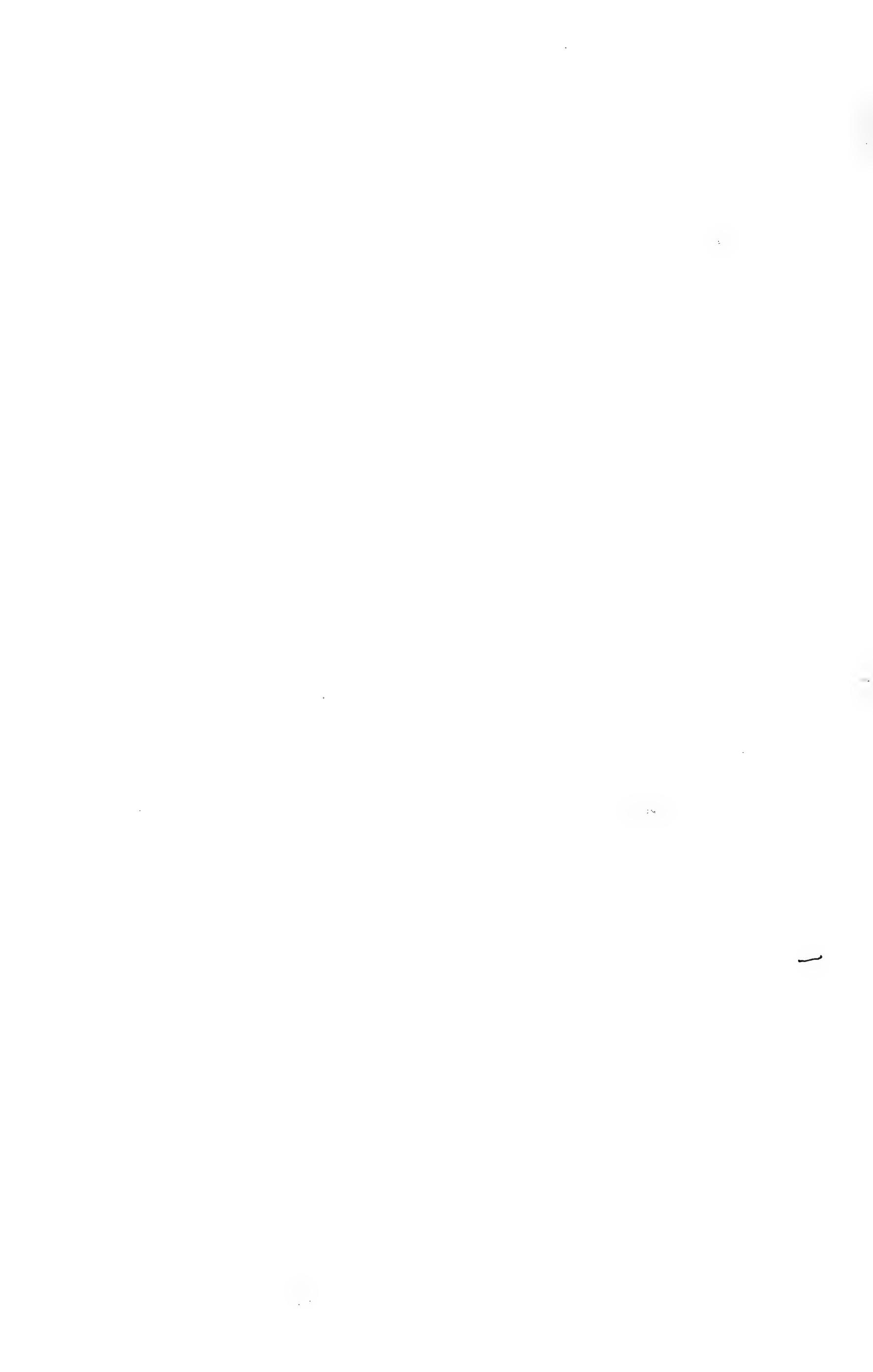
16 May nest check at OR/FW's

Band	OR BK <small>FW</small>	OR BL <small>FW</small>	OR YL
Belly length	4.58	4.49	4.08
depth	3.65	3.41	3.54
width	3.28	3.45	3.26
wing length	26.49	27.37	24.70
tail length	3.73	3.74	<del>1.5</del> 2.50
tarsus	16.66	17.66	15.62
mid toe	16.58	20.08	19.13
hallywicca	10.35	11.63	10.26
feet	Much fur, some stony	same	some fur, but only slight stony
molt	only 3rd ad 4th 10 <sup>th</sup> (truly) are emerged 0.76 Back 3.02/8.57, Belly 1.24/4.24	2-9 <sup>th</sup> 10 <sup>th</sup> are emerged 3rd is out 2.94, Back 4.91/10.73 Belly 3.25/17.57	no 0's emerged Back 3.77/8.42, Belly 1.37/3.39
wt	15.0g	15.0g	13.5g
remarks	Eyes open, they were not last time	Eyes open	Eyes open
FW Band	2031-08950	2031-08951	not given

Flushed ♀ off nestlings at 11:00 m heard ♂ call. Both  
gave distress calls as I approached and left nest.  
Still one unpeeped egg left in nest (#4).

Heard a ♂ singing W of road from pond.

Observed territory of ♂/FW ad BK/fw ♀ on E g pond. Heard  
and saw male call from fence well and small conifer  
patch. No sign of ♀. Did not approach nest b/c  
I was afraid of her deserting again.



Sept. 8

1989

91

Russell Tract Res., Zuni NW Lafayette

19 May

Check nest of <sup>OR</sup> FW and nestlings were not there.  
Both parents obvious and agitated.

OK/CO <sup>OR</sup> FW 2031-08970

Bill length 9.20

Brill depth 5.92

Bill width 4.56

wing length 59.28

tail length 58.66

tarsus 17.64

mid toe 18.41

hallux width 12.88

molt no

Broad patch no but not as may be left over

age

skull

fat sparse, no fat

clones 8.90x5.70

wt 19.0g

remarks screaming

Sucker Creek Field Station

20 May

unmarked ♀ Banded <sup>OR</sup> <sup>RD</sup> TL FW

egg 1

L 20.72

egg 2

L 20.12

W 15.51

W 15.29

wt 2.5

wt 2.5g

egg 3

L 20.35

egg 4 L 20.21

W 15.37

W 15.01

wt 2.5g

kg

wt 2.5

Warms eggs ad quite translucent

$\rho_k / \rho_0$

$\rho_k / \rho_w$

Mar. 8  
1989

Journal

92

Sycamore Creek Field Station

20 May ♀ banded last time with nest  $B^L/Fw$  6P% or

egg 1

L 20.49

W 15.47

wt 2.5g

egg 2

L 22.08

W 15.53

wt 2.5g

egg 3 faint possible I marked on it now 3

L 21.61

W 15.05

wt. 2.25

newly worn off re-labeled

all are worn ♀ chipping, scared off nest

collected leaves of postfish prid. Very thick grass  
no translucent

Fw/GR 8Y/YL ad Fw/or Pd GR 6

3 eggs in dead grass 10" above H<sub>2</sub>O

egg 1

L 18.60

W 15.48

wt 2.0g

egg 2

L 18.74

W 15.68

wt 2.25g

old egg  
grass  
worn

all are medium translucent

egg 3

L 18.76

W 15.59

wt 2.5g

Flagged dead pine 10' south of grass clump with nest



July 8  
1939

Journal

93

Sage Creek Field Station,  
20 May nest of PK/FW <sup>BE</sup>  $\frac{1}{2}$  ♂ &  $\frac{1}{2}$  ♀ & pink. ♀ is unmarked  
4 eggs warm

egg 1

L 19.37

W 15.34

WT 2.0g

egg 2

L 19.73

W 15.59

WT 2.25g

egg 3

L 19.50

W 15.48

WT 2.50g

egg 4

L 19.29

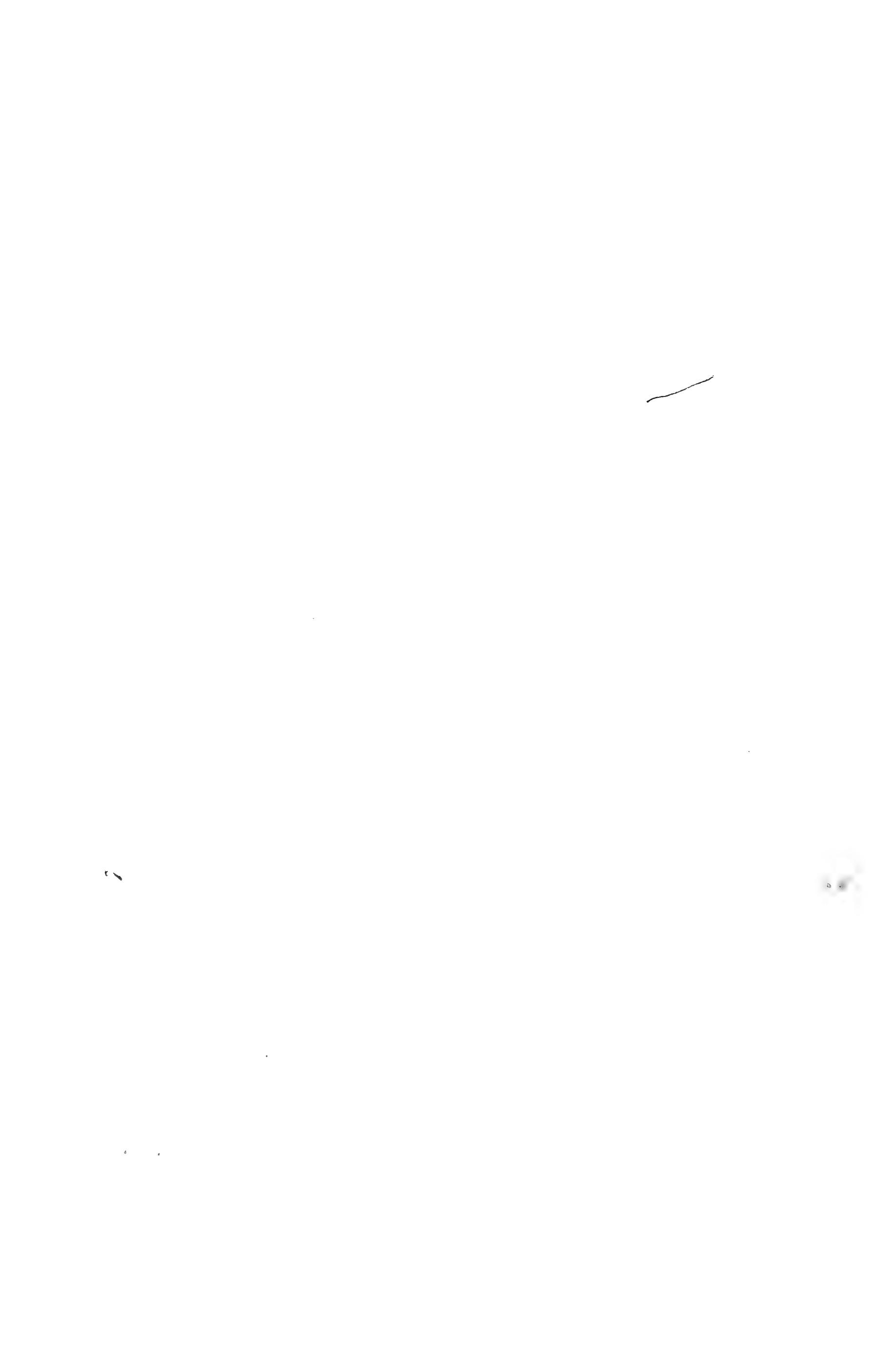
W 16.00

WT 2.25

Remarks

Mod to heavy shell. warm. <sup>2</sup> Branch of nest tree was flagged.  
Nest is at base of willow just visible from w side of  
bush inside the clump of willows to a clearing, + flushed  
by the ♀. She made no sound so sipping. I thought  
it was the ♂ but soon after ♀ flushed he called  
from across the creek. ♀ did not start sipping until  
I actually saw the nest and moved toward it.

5:17 pm <sup>BK/FW</sup>  $\frac{1}{2}$  ♂ was involved in a chase with Immature  
♀ at 3rd mt. in air now he is changing from an evergreen



Suth, J  
1989

Journal

94

Sagehen Creek Field Station

21 May

GR/FW OR/BC 6<sup>7</sup> wh OR ♀. In a willow ~ 1½' off ground, in a scratch  
area obscured from view

egg 1

L 18.85

W 15.34

wt 1.50g

egg 2

L 18.48

W 15.33

wt 1.50

egg 3

L 19.40

W 15.59

wt 1.75g

egg 4

L 18.62

W 15.44

wt 1.00g

remarks - cold out ♀ had been flushed  
off for 20 minutes

very cold this am ~ 700 hours 35-40°, probably  
off. ♀ at ♂'s nest agitated. ♀ went back to nest  
while I had all eggs. These were light to medium shell thickness

GR GR/FW ♂ nest in willow <sup>scratches</sup> near where I banded ♂ ♂ is  
~ 1' off the ground. 4 eggs

egg 1

egg 2

egg 3

egg 4

L

21.11

20.65

20.30

20.70

W

15.90

15.77

15.91

15.77

wt

2.0g

2.0g

2.0g

2.0g

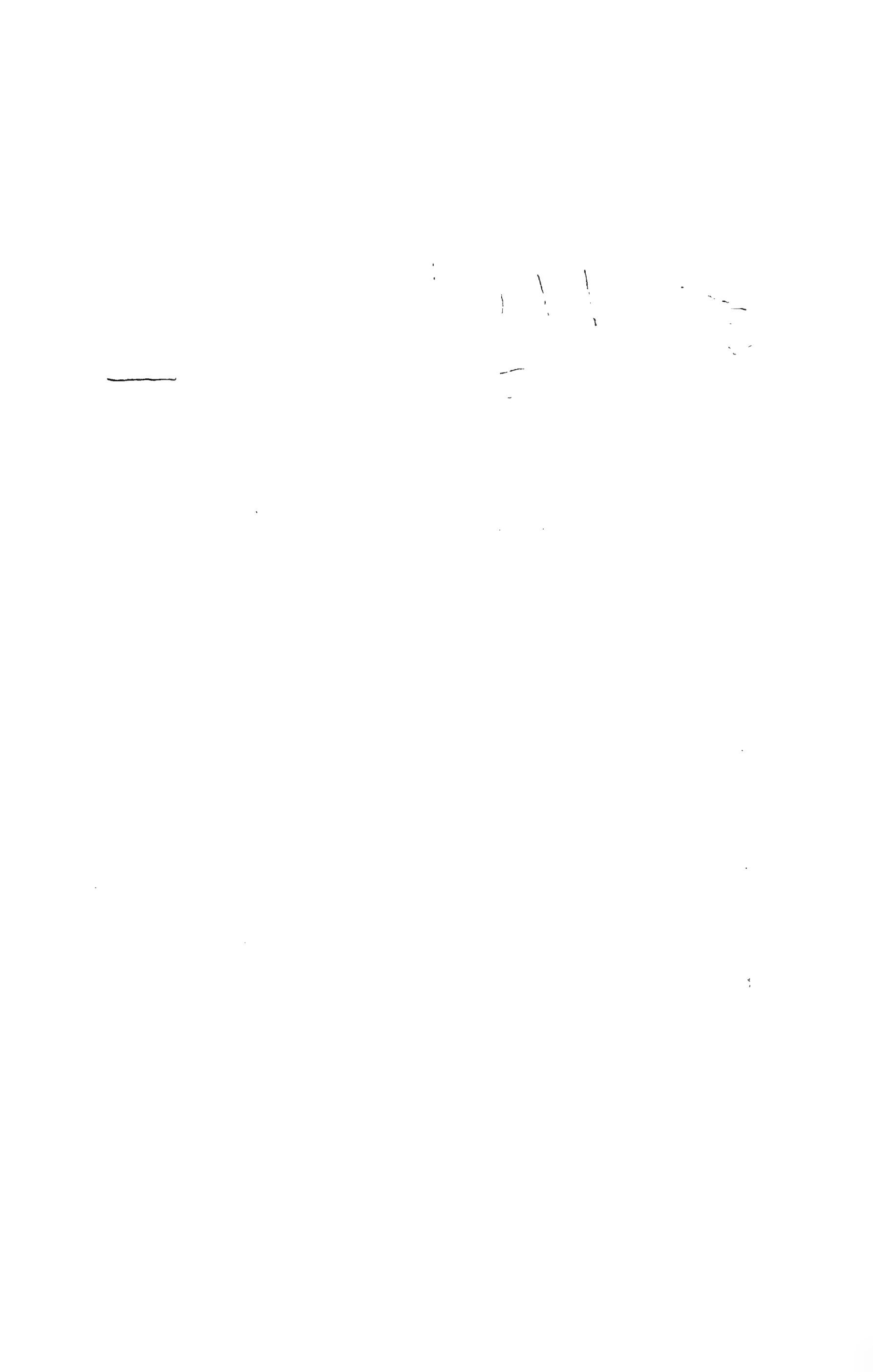
remarks, med shell

light shell

very light

med fl. wt

all very warm



uth. J  
1985

Journal

95

Saychen Creek Field Station

21 May 4 eggs of  $\frac{OR}{F}$   $\frac{GR}{FW}$  ♀

	egg 1	egg 2	egg 3	egg 4
L	20.68	19.97	20.32	20.13
w	15.44	15.32	15.33	15.05
wt	2.50g	2.50g	2.50g	<del>2.50</del> 2.25
remarks	very light shell	light shell	very light shell	<del>very</del> light shell

3 eggs of  $BL/FW$  GR/OR to transfer FW/GR

	1	2	3	♀
L	20.65	22.05	21.57	
w	15.44	15.51	15.05	
wt	2.75	2.75	2.25	

3 eggs from FW/GR GR/or ♀ and FW/GR BL/GR to  $\frac{BL}{FW}$

	1	2	3
L	18.44	18.65	18.58
w	15.47	15.65	15.59
wt	<del>2.50</del>	2.50	2.50g

windy so weights may be off. Thick toward shell  
I used the false canary eggs to hold  $BL/FW$ 's  
deadly. When I returned both adults were off nest  
agitated chirping, ♂ called. But nest cup  
was warm and eggs felt warm too. It is  
quite sunny but windy so I don't think it  
would have held the heat for 20 minutes.



Sat 2, J  
1985

Journal

96

Sucker Creek Field Station

21 May ♀/FW ♂/♂'s nest with unmarked ♀  
4 warm eggs

	1	2	3	4
L	19.32	19.65	19.44	19.28
W	15.35	15.60	15.47	15.22
WT	1.50g	2.0g	2.25	2.50

Remarks: med med Thick Thick  
Base of nest is ~5" off ground in crotch of  
a willow. Very windy so weights may be off.

♀/FW BK/GR ♂ unmarked of nest 4 eggs warm  
on ground at base of cedar tree pm

	1	2	3	4
L	18.60	19.03	19.18	19.73
W	15.16	15.48	15.28	15.36
WT	2.0g	2.0g	2.0g	2.0g

Remarks: punctured, need to heavy thickness

♀ sat on caucay eggs, heated them! Back! ♀ FW RD

Nest of ♀/RD "W/FW ♂" just at 1st station 2 q.  
station. 5 warm eggs? flushed marked ♀.

	1	2	3	4	5
L	19.06	18.29	17.86	19.20	18.51
W	14.28	14.12	15.25	14.34	14.36
WT	2.0g	2.0g	2.0g	2.0g	2.0g
Remarks	medium	light	very light	light	light/mes
					less Brown than others



uth, J  
1989

Journal

97

Burrell Tree Res., 2 mi NW Lafayette, Contra Costa Co., Calif 1300

22 May Fast Friday (9<sup>th</sup>) spotted FW/RD <sup>wh</sup>/<sub>PK</sub> in Bachman's 50 yds S of PF/FW <sup>BL</sup>/<sub>PK</sub>'s Hemlock patch. He was singing like there was a ♀ on eggs but I saw none. I checked <sup>BL</sup>/Fu's nest but no eggs and no sign of her. ♀ has moved up into hemlock just N of mulberry. There is a new ♂ in the 2 pond pines where is also calling across the road (E 50 yds) in Bachmans. Saw <sup>PK</sup>/Fu <sup>BL</sup>/<sub>PK</sub> ♂ and <sup>PK</sup>/<sub>PK</sub> ♀ calling in hemlock sounded like fledglings were in hemlock No nest male stopped quite a bit. Saw <sup>BL</sup>/Fu <sup>OR</sup>/<sub>PK</sub> ♀ at mulberry. ♂ is calling from mulberry.

23 May Spotted <sup>BL</sup>/Fu <sup>OR</sup>/<sub>PK</sub> in Poison Oak S of mulberry he was consorting with his ♀ <sup>BL</sup>/Fu <sup>OR</sup>/<sub>YL</sub> who was also with an unmarked ♂. Found <sup>BL</sup>/Fu <sup>OR</sup>/<sub>YL</sub>'s nest in stinging nettle again! 4 eggs warm. Bright sunny mild morning.

	1	2	3	4
L	19.52	20.01	19.94	19.24
W	16.53	16.08	16.11	15.87
WT	2.75g	3.00g	3.00g	2.75g
	Lightshell	Lightshell	Lightshell	Lightshell

24 May Saw fledgling FW/x <sup>BL</sup>/<sub>PK</sub> at S end of Bachman patch. Also spied his father <sup>BL</sup>/Fu <sup>OR</sup>/<sub>PK</sub> at mother in the patch as well as ♂ and ♀ BL/Fu's and PK/Fu's and <sup>BL</sup>/Fu's and <sup>BL</sup>/PK's!



Smith J.  
1989

97

# Journal

Russell Reservoir, 2 mi NW Lafayette, Contra Costa Co., Calif., 6300 ft.

24 May

Found nest of  $\frac{GE}{FW} \frac{OR}{FC}$  BK ♂ and ♀  $\frac{GR}{FW} \frac{RD}{OR}$

4 warm eggs. 2' up in milk thistle. Nest seems quite loose.

	1	2	3	4
L	19.23	19.48	18.37	19.57
w	15.50	15.84	15.90	15.66
wt	2.50g	2.50g	2.50g	2.50g
remarks	lightshell	Medium/light	light	light
	windy, sunny morning cool 45°			

25 May 0701 hours spotted fledgling FW/ $\frac{FC}{BK}$  in hawkish  
near nest. Possibly 80% fledglings in nest an  
♀  $\frac{GE}{FW} \frac{OR}{FC}$  went back to four eggs after the fiasco with her  
caught in the net for too long yesterday. I checked the nest  
yesterday at noon and she had let them get stone cold  
thus am they are warm will add BL to number an egg  
to avoid transfer confusion.  $\frac{FC}{FW}$ 's have nest with one  
nestly 1 day old 2 unopened eggs will switch there.

Flushed off BL/FW OR/FC's eggs

	1 BL	2 BL	3 BL	4 BL
L	19.52	20.04	19.94	19.11
w	15.70	15.85	16.10	15.83
wt	Light/med	2.50	2.50g	2.50g
	2.50g	light	light	light/med
Flushed off	OR/FW RD/OR ♀'s eggs	2	3	4
V	19.32	19.48	18.40	19.57
U	15.52	15.81	16.02	15.67
wt	2.50g	2.50g	2.50g	2.50g
remarks	med.	medium	medium	med.



uth, Q  
1989

Journal

98

Russell Tree Reservation Lafayette County Cal 1300 ft

25 May

PK/FW <sup>BK</sup> RD ♀ eggs

	5	6
L	20.13	20.25
W	15.37	16.06
WT	2.0g	2.50g

remarks heavy  
pipped/ttly  
accident with pan

heavy shells are very fragile  
may have cracked  
with caliper pressure

All eggs into portable hot pack styrofoam carrier at 0843 hours

T=31°C. Arrive Truckee 1226 hours Temperature of  
portable incubator = 32°C. 1303 hours eggs removed  
to transfer to nests T=31.5°C.

Saychon Field Station

PK/fw <sup>BK</sup> RD ♀

14/16 hours transfer complete. Egg 5 hatched en route

I put hatching with cracked shell into nest. Hatching was  
begging for food. Time from portable incubator to nest was 1 hour

\* Transfer #1

From Russell 2 eggs from PK FW RD ♀ ad BL BK ♂

were transferred to ~~the~~ Saychon nest of YL RD wh FW ♂ ad unmarked ♀  
5 eggs in YL RD wh FW's nest labeled with a wh

	1 wh	2 wh	3 wh	4 wh	5 wh
L	18.94	18.23	17.90	19.20	18.47
W	15.18	14.11	15.15	14.42	14.44
wt	1.75g	1.50g	2.00g	1.75g	1.75g
marks	med/heavy	light	light	very different marking much more brown at pt than others	med/heavy



10th, 8  
1989

Journal

99

Sagehen Creek Field Station

25 May \* Transfer #2

From Russell 4 eggs from  $\frac{1}{2}$  fw OR  $\frac{1}{2}$  L ♀ and unmarked ♂  
to Sagehen RD FW BK ♂ and " for ♀ for 4 eggs flushed ♀

Sagehen RD FW eggs are numbered and RD too

	1 RD	2 RD	3 RD	4 RD
L	18.83	18.56	19.40	18.66
W	15.13	15.42	15.65	15.49
wt	1.00g	1.00g	1.50g	0.50g
remarks	med/light	medium	medium	med/light

\* Transfer #3

From Russell Four eggs of  $\frac{1}{2}$  fw OR  $\frac{1}{2}$  BK ♂ are RD ♀ to Sagehen  
BK wh RD FW ♂ and OR RD FW ♀ 4 eggs warm did not see ♀ headd ♂

Sagehen eggs marked 1-4 and R

	1R	2R	3R	4R
L	20.65	20.09	20.13	20.23
W	15.42	15.41	15.36	15.08
wt	2.50g	2.25g	2.25g	2.25g
remarks	med/light	medium	med/light	medium

At 1453 hours all sagehen eggs are in the incubator  
set at 32°C with 1/2 cup of water in bottom left  
corner for humidity.



Smith, J  
1989

Journal

100

Sagehen Creek Field Sta., 3 mi NW Hobart Mills, Nevada Co., Calif 6380 ft

25 May  $\frac{4}{4}$  FW  $\frac{BK}{OR}$  ♂ and  $\frac{PK}{RD}$  ♀ 4 nestlings look like they hatched this morning it is 1544 hours now sunny, the wind  $\approx 6^{\circ}$  F.

RT leg 1 left leg 2 RT wing 3 left wing 4

Belly lg 2.37 2.38 2.28 2.22

digit 2 2.40 2.59 2.29 2.23

width 2.60 2.25 2.12 2.16

wing lg 7.15 6.26 6.51 5.46

tail lg 2 not emerged not emerged not emerged not emerged

tarsus 5.69 5.69 5.40 5.59

mid toe 7.68 7.90 7.24 7.17

hallux oblique 4.56 4.99 4.72 4.15

molt downy downy downy downy

\*<sup>8</sup> day old day old day old day old

fat soft belly, fore, armpits, same same mostly belly, little arms, fore

cloaca 2.73 x 1.98 3.54 x 2.89 2.71 x 1.39 3.28 x 1.71

♀ Chipping and scrappy pine needles was flecked off next

remarks eyes not open eyes not open eyes not open eyes not open

wt 3.0g 3.0g 2.50g 2.0g

4 nestlings at  $\frac{PK}{FW}$   $\frac{BK}{OR}$  and unmarked ♀



Smith, J.  
1989

Journal

101

Sayre Creek Field Station, 3 mi. NW Hobart Mill, Nevada Co., Calif. 6309 ft

25 May PK FW BK <sup>BK</sup> On's nestlings

	<del>PK FW RT</del> <del>X X ori</del>	Captg 2	1st toes 3	Left toes 4
bill length	2.59	2.92	2.63	2.94
depth	2.30	2.70	2.67	2.84
width	2.19	2.59	2.65	2.83
wing length	8.63	7.74	8.64	9.11
tail length	0.35	not out	0.75	0.99
tarsus	7.08	7.04	7.70	8.20
mid toe	10.68	10.87	11.06	11.66
hallux width	5.81	6.04	6.26	7.04 5.99
wt	4.50 g	5.0 g	9.50 g	1.85 5.0 g very downy
molt	outer 4 <sup>th</sup> s, just bands out downy	inner 3 <sup>rd</sup> s, just out downy	1st 7 <sup>th</sup> s, just out	5+ 7 <sup>th</sup> s out
age	2 day?	2 days	2-3 days	2-3
fat	some belly streak, face, and b. some	none	none	some
cloaca	2.17 x 1.29	2.34 x 1.93	2.78 x 1.25	3.01 x 1.92
remarks	6 eggs too small to band eggs bury slot	eye closed	eye closed	eyes closed

Found nest of pair 5 of ~~PK~~ <sup>SR</sup> ~~FW~~ ♂ in low willow near stream's edge, I believe both ♂ ad ♀ are unmarked.

4 eggs were cold but I had flushed the ♀ 20 minutes before.

	1	2	3	4
L	19.39	18.68	19.20	19.37
W	14.35	14.79	14.66	14.62
WT	2.25 g	2.09	2.08	2.09
remarks	light/med	light	light	light

153.28  
153.28  
- 06 56

18  
1989

102

Journal

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft.

25 May collected nest of ♂ <sup>GR</sup> <sub>PK</sub> <sup>GR</sup> FW and unmarked ♀, there was egg #3 left in it only. No sign of adults. <sup>#3:</sup>  $L = 20.34$ , <sup>15.88</sup>  $W = 2.50$  g. Nest was 306.56 mm off the ground in the crotch of a willow. 104.87 mm = outer width, outer depth = 75.85 mm inner width 69.78 mm, inner depth = ~ 45 mm

Checked incubator at 1755 it was 33°C so turned down.

Checked at 1910 30°C so turned up. 31°C = T at 1946.

T = 30°C at 2130 hours turned up to 32°C.

26 May T = 31.5°C of incubator. 0719 hours ~~after~~ egg #6 is just hatching in <sup>wly</sup> FG's nest  
st leg 5 6

Belly length	2.42	too young to measure
digit	2.12	
width	1.89	
wing length	6.92	
tail length	not out	
tarsus	6.03	
width	7.64	
hallow/cheek	4.19	
not	dorsal	
fat	Belly fat some, no thoracic	
CW/BL	1.96 x 1.46	
wt	2.0 g	

Remarks

eye not open today

Banded ♀ <sup>BL</sup> <sub>PK</sub> <sup>WY</sup> FW 2031-08954. At 0850 hours

incubator T = 32.0°C. 1000 hours Sagehen goes into portable incubator T = 31.8°C



March, 1985

Journal

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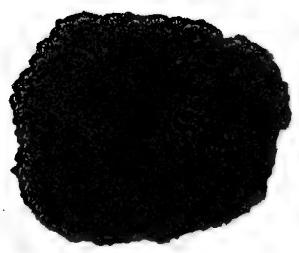
Russell Game Reservation 2 mi NW Lafayette Contra Costa Co. Calif 1300 ft

26 May

As soon as I took styrofoam incubator outside the T dropped to 27°C, but in 30 minutes it was up to 30°C and when I reached Russell at 1809 hours T = 31°C. Transfer complete at 1429 hours. Flushed ♀ <sup>BK</sup>/FW <sup>ON</sup> 1/4L ad <sup>GR</sup>/FW <sup>RD</sup> 1/4R but did not see <sup>PK</sup>/FW <sup>BK</sup>/RD. ♂ <sup>RD</sup>/FW ♀ had eliminated 1 house sparrow egg leaving 3. <sup>PK</sup>/FW had also eliminated 1 house sparrow egg leaving 1 ad her nestly. ♂ <sup>RD</sup>/FW ♀ was sitting on 4 house sparrow eggs (warm). I collected <sup>PK</sup>/FW's 1-2 day old nestly <sup>(#15132)</sup> ad left 5 eggs!

27 May

Observing <sup>FW</sup>/BL's area looking for fledglings, heard ♂ ad. ♀ is acting like she is on eggs. Set out seed for last but saw Brown Towhee feeding on it. Checked transfer nests. All are doing fine. Flushed <sup>BK</sup>/FW <sup>ON</sup> 1/4L off 4 warm eggs. Flushed <sup>PK</sup>/FW <sup>BK</sup>/RD off 4 warm eggs, one was missing did not want to take extra time to see which egg. Flushed <sup>ON</sup>/FW <sup>RD</sup> 1/4R off 4 warm eggs. Found the missing house Sparrow egg lying on a milkweed leaf it could have fallen out & was landed there w/o ♀ pushing it out. Saw lots of activity at <sup>FW</sup>/BL's looking like numerous fledglings, ♀ into obvious perhaps feeding nestlings. Observing <sup>FW</sup>/BR at cotton pond, he was calling with ♀. Could not see bands for positive id because I forgot my binoculars today. The x 0 eggs from sagehen are quite bottom heavy, perhaps chick is positioned at one end getting ready to hatch. At hawthorn patch N ♂ mulberry looked like ♀/FW was still singing out nestbox.



with, J  
1989

Journal

104

Burro Creek Res., 2 mi NW Lafayette, Contra Costa Co., Calif. (3000 ft.)

29 May Recorded vocalizations and found 2nd nest of  $\text{FW}/\text{BL}^{\text{PK}}/\text{TRQ}$   
ad  $\text{FW}/\text{BL}^{\text{YL}}/\text{OR}$  ♀. 4 warm eggs

	1	2	3	4
C	19.13	19.38	18.39	18.63
W	15.47	15.04	14.96	14.99
WT	2.00g	light/med	2.00g	2.00g
remarks	light/med	2.00g*	light	med/light

nest is  $\approx$  4½' up in a Pine tree crotch. Flushed

♀. Windy, cold ~50°F and sunny. Nest is even with the  
top of my belly button. 0910 hrs transferred nest chick

Flushed ♀  $\text{BL}/\text{FW}^{\text{YL}}$  off of 4 warm eggs shells too heavy.

Heard ♀  $\text{BL}/\text{FW}^{\text{YL}}$  OR chimp ad 4 warm eggs 1, 2 ad 4 heavy,

3 is medium. Did not see or hear  $\text{BL}/\text{FW}^{\text{BL}}$  ad  $\text{BL}/\text{OR}$

Her 4 eggs (#5 is missing) were cool at nest cap for  
cool. Saw her  $\text{BL}/\text{RO}$  at 0955 hours came up 20' N of  
nest she ad male called.

31 May Checked nest of  $\text{BL}/\text{FW}^{\text{YL}}$  ad at 1117 hrs 2 hatched  
young egg #3 shell looks medium, #4 is heavy. Tong looks  
like they hatched yesterday. Flushed ♀? off nest

caliper off by .03  
Bull length 2.30  
depth 2.47  
width 2.28

Tail length not out

Tarsus 4.87

Middle 6.93

Walker's claw 4.25

Cloaca 2.40 x 1.89

Fat belly, arms some

right downy

wt 1.75g

wings length 6.78

remarks eye closed

2 left leg

2.36

2.37

2.33

not out

4.71

7.39

4.11

3.21 x 2.56

same

2.00g

6.29

eyes closed



Smith, J.  
1989

Journal

105

~~Long Valley, 2 mi. NW Lafayette, Contra Costa Co., Calif., 1300 ft~~

31 May

Nest check of <sup>PK</sup><sub>BL</sub> <sup>OR</sup><sub>FW</sub> RD ♀ Four Luke warm eggs, nest  
cup felt warm, head adult. Sip. Eggs 1, 2 are  
heavy and 3 is medium/heavy and 4 is medium.

Nest check of <sup>BL</sup><sub>FW</sub> <sup>OR</sup><sub>YR</sub> ♀ Four warm eggs all heavy shells,  
but feel hollow and lop-sided.

1 June

Nest check <sup>BL</sup><sub>FW</sub> <sup>OR</sup><sub>YR</sub> ♀, 4 warm eggs, heavy shells. <sup>AC</sup><sub>FW</sub>'s  
nest empty saw ♀ near nest. <sup>GR</sup><sub>FW</sub>'s nest 2 nestlings at legs (#3)  
both parents seen, ♀ flushed off nest 0749 hours

	1st leg	2 left leg
Bill length	2.46	2.61
depth	2.15	2.08
width	2.11	1.84
<sup>avg</sup> tail length	7.56	6.70
tail length	—	—
tarsus	5.57	5.48
mid toe	7.70	7.73
hollow w/claw	4.07	4.46
molt	downy	downy, feathers trans appear unback
fat	Much belly and avans	Same
abdomen	2.05 + 1.46	2.74 + 2.05
wt	2.50g	2.50g
remarks	eyes closed	eyes closed

Saw <sup>YR</sup><sub>FW</sub> <sup>BL</sup><sub>PK</sub> with unmarked ♀ at W end of  
reddish patch S of metal pole ~<sup>10</sup>/<sub>8</sub>' in from  
road. ♀ was carrying dead grass and going  
down into turtle "fatty" to S.



March 1987

Journal

106

Taylor Creek Field Station, 3 mi NW Mount Mills, Nevada City, Calif 3000 ft

1 June

Nest check of  $\frac{RD}{FW}$  <sup>wh</sup> or ♀ ad  $\frac{RD}{FW}$   $\frac{OR}{BL}$  ♂

Eggs 1, 2 - medium, 3 - med/light  
and 4, 5 heavy. They were warm but  
I did not see the adults.

Nest check of ♀ commarked Sq  $\frac{PK}{OR}$   $\frac{GP}{FW}$   
in low willow near stream. 4 warm eggs  
with heavy shells. Flushed ♀.

Nest check of BK/FW  $\frac{RD}{FW}$  ♂ ad  $\frac{OR}{BL}$   $\frac{RD}{FW}$  ♀  
1:3-4 are med/heavy ad 2:5 heavy, flushed  
♀ off warm eggs.

Nest check at BY/FW  $\frac{OR}{OR}$  ♀ ad  $\frac{BY}{FW}$   $\frac{PK}{BL}$  ♂  
2 large nestlings no sign of other egg. Female  
flushed off. Nestlings banded  $\frac{BL}{FW}$   $\frac{TC}{BK}$   
ad  $\frac{BY}{FW}$   $\frac{RD}{FW}$  ~~OR~~ wh

Nest check at  $\frac{BY}{RD}$   $\frac{WH}{FW}$  ♂ ad  $\frac{BY}{BL}$   $\frac{WH}{FW}$  ♀, only one  
nestling, cannot see any marks of either or  
tarsi, no sign of other. Banded  $\frac{OR}{PK}$   $\frac{X}{FW}$

Nest check at  $\frac{BY}{FW}$   $\frac{BK}{GP}$  ♂ ad  $\frac{AK}{BL}$  ♀, 4  
well-feathered nestlings banded.

Nest check at FW/GR  $\frac{OR}{OR}$  ♂ ad FW/GR  $\frac{BY}{TC}$  ♀ only  
one nestling no sign of 2 other eggs or fledglings.

Banded 2031-08962 left al OR on tarsus.

Captured unbanded ♀ 5 of  $\frac{PK}{GR}$   $\frac{GR}{FW}$  5 banded  
her 2031-08963 ~~Y~~ ~~WH~~  $\frac{OR}{FW}$

2 June

Collected  $\frac{4}{4}$  FW family as control ad banded 5  
 $\frac{4}{4}$  FW  $\frac{PK}{OR}$  That came up handle ♀ after I  
had netted ♂.



March 19

found

107

PG 9

Sage Creek Field Station 3 mi NW Hibut Mills Nevada Co., Calif 6300 ft

2 June Nest check at <sup>w/w</sup> FW ~~at~~ at log.

1 nestly FW (#2031-08957) <sup>left</sup> G and GR/PK rt.  
both adults chirping.

Bill length 4.22 length 3.54

width 2.90 wing length 25.40

tail length 2.10 tarsus 17.19

middle toe 18.35 hallux claw

fat much fine, some streaked wt 14.08  
 molt 3rd 10<sup>th</sup> not out back <sup>2.56</sup> 5.71 belly <sup>7.05</sup> 7.05

remarks ♀ flushed off as I approached  
does not seem as robust as Sagebrush nestlys

Nest check at FW <sup>RD</sup> OR <sup>♂</sup> ad BY <sup>♀</sup> YL ♀

one nestly Banded 2031-08562 green rt log

Bill length 4.66 length 3.91

width 3.76 wing length 29.06

tail length 4.03 tarsus 16.28

middle toe 20.47 hallux w claw 11.24

fat some fine, 1, h tan wt 16.00g

molt 10<sup>th</sup> 3rd <sup>0.62</sup> 19.65 back <sup>7.97</sup> 10.32 belly <sup>6.47</sup> 10.90

remarks

Nest check at Transfa <sup>#3</sup> clutched <sup>OR</sup> <sup>RD</sup> FW ♀

one hatching from egg #1, painted st leg black

wt 1.75g. Eggs 2-4 are warm and heavy.



March 1989

Journal

108

Sagehen Creek Field Station

2 June

~~Bill length~~

~~width~~

~~Bill depth~~

Nest check at BYCw's, ♂ chirping 1635 hours

2031-08955

2031-08955

Bill length

3.94

4.42

depth

3.33

3.31

width

3.58

3.56

wing length

27.40

29.52

tail length

3.25

3.42

tarsus

15.55

16.72

metatars

19.49

~20.69

hallux+toe

11.01

11.46

fat

moderate, some rams

much fat, some stored

wt

14.0g

15.5

molt

31° not out, back  $\frac{2.92}{7.34}$ , belly  $\frac{2.71}{5.55}$ ; Bill  $\frac{0.57}{16.88}$ , back  $\frac{9.52}{8.11}$ , belly  $\frac{4.78}{9.54}$

Remarks

cloaca

3.81 x 1.76

4.22 x 2.67

Nest check at "1/2 in" FW, 5 eggs, new size  
100/100 like combird, I took it all left & heavy  
crucible eggs.

Nest check at "1/2 in" FW's 4 warm eggs all heavy  
except #3 (medium)



July  
1989

Journal

109

Sagehen Creek Field Station, 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft

3 June Nest check at trapper nest #3, in <sup>an</sup> Ewt

3 nestlings, one egg unhatched #2 (med/hwy)

10/10 hours 1st leg

2 left leg

3 right legs

Belly length	2.26	2.17	2.46
depth	2.39	2.54	2.28
width	2.23	2.12	2.35
wing length	6.13	5.48	6.24
tail length	not out	not out	-
tarsos	4.91	5.34	5.03
metatarsus	6.94	6.85	7.21
hallux	4.46	3.75	4.45
molt	downy	downy	downy
fat	unmeasured	some	much more at belly
wt	2.0g	2.0g	2.0g
remarks	eyes closed	eyes closed	eyes closed
age	1 day	0 day	0 day

Nest checked 6/6/89

2031-08955

56

Belly length

depth

width

wing length

tail length

tarsos

metatarsus

hallux

wt

started to rain  
aborted  
nesting

14.50g

16.0



11th, 1985

Journal

110

Sayulka Field Station, 3 mi. NW Hobart Mills, Wexford Co., Calif. 6300 ft

3 June Saw <sup>fw/</sup> BK <sup>♂</sup> & ♀ with unmarked Pcamaj food. Marked area where I thought the nest was. Saw ♂ <sup>fw</sup> <sup>or</sup> <sup>♂</sup> w/ unmarked ♀ acting like on eggs.

4 June collected Trans #1 chick, could not get adults - nest checked BLYFW's

2031-08955

2031-08956

Belly length	4.20	4.90
leg t. <sup>h</sup>	3.74	3.83
width	3.23	3.64
wing length	35.17	35.48
tail length	7.15	7.36
tarsus	16.96	17.11
metatarsus	19.53	21.45
hind wing width	11.59	13.23
wt	15.08	16.0g
mgmt	$\frac{3.26}{3rd 1^o}$ , 24.53, back 6.44 belly 9.00	$\frac{3.61}{25.45}$ , $\frac{9.32}{15.65}$ , 4.94 9.72
fat	set two alarms	much fwrc, some belly fat stem
remarks	egs open	egs open
cloacal	5.33 x 2.25	4.55 x 3.97





Smith, Jr  
1989

Journal

717

~~Sage Creek Field Station, 3 mi NW of Bartow, Nevada Co., Calif 6300~~

4 June Nest check at Transfer #3  $\frac{1}{4}$  or  $\frac{R^D}{FW}$ , 4 nestlings

	1st b	2 left	3 both	4 now
bill length	2.58	2.70	2.55	2.13
depth	2.49	2.43	2.41	2.11
width	2.60	2.32	2.51	2.02
wing length	7.43	6.81	6.92	6.83
tail length	not out	-	-	
tarsus	6.07	5.83	5.69	4.31
mid toe	9.01	8.36	8.21	5.89
hallux	4.71	4.70	4.87	3.64
wt	3.50g	3.08	3.08	1.50g
clutch	3.05x1.64	3.30x1.67	1.70x1.13	2.75x0.92
remarks	eggs lit, not open	8 same	5 same	eggs not open
fat	some	very belly满	same	arms some

nest cups felt very wet (it had rained for 4 hours)

This morning an adult was sipping.

Nestcheck at  $\frac{1}{4}$  wh  $\frac{R^D}{FW}$  ♀, 4 wet eggs but I flushed

off female. Nest check at  $\frac{R^D}{FW}$  transfer #2

3 wet eggs with puddle of water. I left them b/c I heard a lot of sipping, who knows?

Yesterday found nest of 2 unmarked indices just where

I cross over Sagehen at Beaver dam, flagged 4 warm eggs.

Too overcast to candle the eggs. The  $\frac{6}{4}$  FW nest was

empty, no sign of fledglings or adults.



Smith, J.

1989

## Journal

112

Russell Ranches, 2 mi. North of Oakdale, Contra Costa Co., Calif. 6300 ft

4 June Next check of Transfer #3, 2 bulging bellied young seen sitting on even when I got within 3'. No eggs (#3) seen. 1816 hours

	1 RT leg	2 left legs
Bill length	3.48	3.48
depth	2.82	3.08
width	2.82	3.13
wing length	15.68	14.66
tail length	not out	=
fallosus	12.09	10.98
middle	15.52	13.61
Wing/TLaw	8.74	9.03
mot	Back $\frac{0}{4.21}$ , Back, Belly	$\frac{0}{2.95}$ T.G. $\frac{0}{0.92}$
fast	Much force	Much force and abrupt small,
deca	3.24 + 2.03	4.22 x 2.44
wt	9.50 g	11.0 g
Remarks	eyes slit but closed	eyes slit open anteriorly
Banded	left leg $\frac{1}{1}, \frac{1}{2}$ RD	left leg green $(\frac{1}{1}, \frac{1}{2})$

Nest check at Transfer #2 BL/FW, 2' eggs have shell removed from  $\frac{1}{4}^2$  at tip (small end), #4 sounds like bean (hard) is jiggling inside, #3 is OK.

6 June Nest check at transfer #2 BL/FW the bigger eggs look all dried out, I'm taking one in to RSI for consultation. ♂ ad ♀ still vigilant and eggs still warm.



Sneath, J  
1939

Journal

113

Rennell Islands; 2 mi NW Lafayette Contra Costa Co., Calif. 1300 ft

6 June Nest check at transfer #3, 2 warm nestlings  
Both adults chirping 1151 hours

RD biffy

GR left by

Bill length	4.22	4.59
depth	3.55	3.44
width	3.51	3.45
wing length	24.03	22.06
tail length	1.92 not enough	1.55
taisum	15.37	14.33
midline	18.02	17.53
halluculation	11.67	11.21
molt	3rd 1° <sup>0</sup> <del>12.30</del> , <sup>1.56</sup> <del>5.52</del> back, belly - <sup>3.18</sup> <del>6.13</del>	<sup>0</sup> <del>11.52</del> , <sup>1.84</sup> <del>6.26</del> , <sup>1.42</sup> <del>3.99</del>
feet	much frayed, sores shoulders	same
cloaca	2.88 x 1.76	3.74 x 2.05
wt	12.50g	13.50g
REMARKS	eyes completely open but droopy	same

Nest check at EW/BL "or ♀, 4 cold eggs both parents sipping  
through, all eggs (-4) were light/med. No fresh progress  
since 29 May. The eggs had hot top-sided feel (top heavy) to  
them like the Transfer #2 eggs in BL/FN's nest.

8 June Nest check at Transfer #2 female still keeps warm left in 2 uncracked eggs.  
Took egg #1 of RD embryo was evident ~ 4.5mm long. Shell thickness = .22  
Check of Transfer #3, nest on ground B? was chirping, ♀ unseen but  
heard her (?). No sign of young yet from parents behavior they may  
still be in the twitters. Nest check at FW/BL 4 cold eggs no sign of  
♀ or ♂ or new fledglings.



19th, J  
1939

Journal

114

Russell Tree les., 2 mi NW Lafayette, Contra Costa Co., Calif., 1300 ft.

9 June 0807 hours found what I believe to be the nest of  
 $\text{Y/Fw } \text{BF/PK}$  ♂ ad unmarked ♀, I have although seen  
♀ followed by unmarked ♂ thought was with  $\text{B/Yw}$  ♀.  
3 warm eggs, positioned in a nest in wkt thistle  
about waist height. I will not mark eggs for fear  
I have been puncturing them with the pen

	1	2	3
L	20.27	19.98	19.35
w	15.94	15.56	15.12
wt	2.50g	2.50g	2.00g
marks	med/light	med	med

2 cool eggs in  $\text{B/Yw}$  transfer #2. Both heavy. Saw  
fledgling  $\text{Fw}/\text{x }$   $\text{B/Yw}$  in Hawk patch of nest. Saw  $\text{G/R}/\text{Fw }$   $\text{PK}$   
♂ calling from Thistles near flushed nest.

Bait trapped fledgling 1431-14522  $\text{PK}$   $\text{PK}$  from  $\text{PK}/\text{Fw }$   $\text{B/Yw}$  ♂ ad  $\text{RD}$ / $\text{BF}$ .  
This fledgling was really younger of  $\text{Fw}/\text{BL}$ 's  
At ~~pond~~ pond saw  $\text{DK}/\text{Fw }$   $\text{B/Yw}$  with unmarked ♀. ♀ was  
chirping near the NW corner in the reeds & ♂ was singing on  
W side in Ruldsch.

Nest of  $\text{OR}/\text{FI }$   $\text{B/Yw}$  ♂ ad unmarked ♀ is on W side of road in fallen Buckwheat  
well concealed by leafy branches. 4 warm eggs, unmarked

	1	2	3	4
L	20.21	20.19	19.77	19.52
w	15.36	15.55	15.38	15.43
wt	2.50	2.50g	2.50g	2.50g
marks	med	light/med	med	med



South. J  
1989

Journal

115

Russell Inn Res., 2 mi. NW Laramie, Contra Costa Co., Calif. 1300ft

9 June Nest check at FW/BL's - no sign of my Sora Spans, 4 cold eggs.

10 June 4 warm eggs (flushed unmarked ♀) of ♂/FW BL/RD into styrofoam incubator  $T = 30^\circ\text{C}$  time = 10/14 hours, put dog away around nest ad put in 4 cold boxes. Spans eggs. Moved hot packs around  $T = 33.5^\circ\text{C}$  at 1020hrs

Sayre's Creek Field Steamer 3 mi. NW Hotfoot Mills, Nevada Co., Calif. 6300ft

10 June Arrive Sayre 4:30pm taxable traffic jam at Donner. Nest check at Sayre's #3 only one wing (nestly - 7 days old), in nest, ♂ heard calling near nest no other signs. 4 big chicks at X ♂/FW's nest ad 4 smaller at unmarked pair E of ♂/FW with banded w/ FW and ad to on left. Not big enough for FW so just YL

	YL	YL	RD	YL	BL	YL	GR	YL
Belly ft	3.67		3.57		3.81		3.83	
depth	2.99		2.85		3.45		3.27	
width	3.05		3.20		3.53		3.26	
wing ft	15.63		18.82		15.77		14.02	
tarsal ft	not out		-		-		-	
tarsus'	12.01		12.37		11.34		11.06	
midtars	17.30		17.87		18.35		17.11	
hallux w/claw	10.24		9.75		9.78		8.96	
wt	3.01 $\frac{0}{5.14}, \frac{0}{1.79}, \frac{0}{1.97}$		0.42, 1.77, 2.07		0.46, 1.62, 2.36		3.69, 0.86 $\frac{0}{0}$	
fat	much fw, mms, belly		Same		Same		Much fw, some am & belly	
wt	11.0g		12.50g		11.00g		10.50g	
Remarks	Yesslit not open		eggs sit, 1pm cl. Hb in anterior		Same		Same	



1989

Journal

116

Sixmile Creek Field Sta., 3 mi NW Hobart Mts., Nevada Co., Calif. 6300 ft.

10 June 1847 hours finally got incubator working (I managed to unscrew the top springs). It is now dry bulb 90°F = 33°C and wet bulb 74°F so relative humidity is 47% put eggs in styrofoam war 32°C. 1023 hours dry bulb 89°F and wet bulb 75°F making relative humidity 52%

11 June 0529 hours Dry T = 87°F wet = 65°F, rel humidity = 30%.  
0606 hours Dry bulb T = 90°F wet bulb = 74°F rel humidity = 47%  
1020 hours Dry Bulb T = 90°F, wet bulb 74°F rel H = 47%  
I flipped the eggs over. 1610 hours caught the eggs at dry bulb 98°F and wet 88°F making rel H = 70%. Sun had come thru window and heated up incubator ~30 minutes. Eggs feel limp.

Replaced in incubator 1700 hours dry bulb 90°F wet = 75°F  
rel humidity = 50%  $\frac{75-68}{75-68} \times 100\%$

Banded young at <sup>Egg</sup> <sup>R</sup> for ♀'s nest & young - all have atavism and FW. 2011 hours in incubator dry bulb 90°F, wet = 76°F rel H = 53%. 2138 hours holding steady at 90°F dry, 76°F wet 53% rel. H.

12 June 0916 hours dry bulb = 91°F, wet bulb = 73°F, rel humidity = 43%  
0933 hours found 2nd nest of BC/BK <sup>W</sup> FW 3 little warm eggs

	1	2	3
l	18.66	18.76	19.38
w	14.83	15.05	15.16
wt	2.00g	2.00g	2.00g

remarks light light/med light/med  
nest is at base of larchpole pine just 5 m S of footbridge



17, 8  
1989

Journal

117

Sagehen Creek Field Sta, 3 mi NW Hobart Mills, Nevada Co; Caly G300 ft

12 June

Transfer #4 4 eggs (measured 2nd nest 9 June #1-4 post-measure)

there are eggs of  $\frac{1}{2}$  FW  $\frac{1}{2}$  FW ♂ & ♀ Purcell, were transplanted to nest of PK/FW BK/ $\frac{1}{2}$  FW ♂ unmarked ♀. Their 4 eggs are #d 1-4 (parted not paired) to 930 hours

	2	3	4
L	19.66	19.84	18.98
w	15.88	16.00	15.99
wt	2.50g	2.50g	2.50g

remarks med/lgt light med/lgt oblong, light shell  
2nd nest just 10ft S of 1st nest in same willow clump 6' off ground. in crotch of willow

Transfer #5 Incomplete only to Russell  $\frac{1}{2}$  FW BK/ $\frac{1}{2}$  FW ♂

From Sagehen 4 eggs of  $\frac{1}{2}$  FW  $\frac{1}{2}$  FW ♂ ad unmarked ♀  
2nd nest is 10 ft S of 1st nest 12' off ground. in crotch of willow

	#5	#6	#7	#8
L	20.77	20.90	21.12	21.29
w	16.10	15.79	16.30	15.54
wt	2.50g	2.50g	2.50g	2.25g

remarks heavy heavy heavy med/heavy

Into styrofoam 1034 hours T=33°C, At 1447 Arrive at Burzell Ice Per. 2 mi NW Lofelter, Colusa Co; Caly 1300 ft

12 June Styrofoam T=32°C. Transfer #4 to  $\frac{1}{2}$  FW complete a 1452

Fleshed ♀ off home Spent eggs ad replaced with  $\frac{1}{2}$  FW's eggs + 4. Transfer #5 complete fleshed ♀ unmarked ♀

	1	2	3	4
L	20.31	19.93	19.35	put her in $\frac{1}{2}$ FW's
w	15.88	15.69	15.10	nest removed unhatched
wt	2.50g	2.50g	2.00g	transplant eggs 3+4.

remarks heavy heavy med/heavy Didn't hear ds see ♀ Both eggs cool.



16th, 9  
1939

Journal

118

Russell Tree Hos. 2 mi. NW Lafayette, Contra Costa Co., Calif. 1300 ft.

15 June 0708 hours, nest check at  $\delta^L/FW \frac{OK}{4L}$  sitting on  $\delta^L/FW \frac{3}{8}$  3 eggs (transfer). The eggs are cold and nest is moist. Heard no sipping, I think they were abandoned. Saw  $FW$ /Red Back in Baccharis S of  $\delta^L/FW \frac{BC}{B/K}$ . Also saw unmarked bird in S end of  $PF(FW)$ 's hemlock.

Nest check at Transfer #5, empty nest! No sign of either adult 0925 hours. Caught unmarked fledgling in baited trap in small turtle patch just across the road ( $\approx 20'$ ) from willow. It may be 1st fledgling of  $\delta^L/FW$ 's (it is JIS 147).

With  $FW/RD$  there were at least 2 unmarked fledglings in Baccharis S of  $PF/FW$ .

16 June Collected old nest of  $\delta^L/FW$  (JIS 122 + 123) it was mid thigh height off the ground in a Berry Bramble

17 June Found 3rd nest of  $\delta^L/FW \frac{OK}{4L} \delta$  - it is on E edge of willow  
damp  $\approx 5'$  N of her 1st nest. 4 warm eggs

	1	2	3	4
L	20.55	18.77	19.56	19.39
W	15.63	16.30	15.52	16.01
wt	2.50	2.508	2.508	2.508
remark	light	light/med	light	light/med

Dogged away and ~~did not find~~ nest, the nest is 1' W  
of a tall red plant in some blackberry  $\approx 1\frac{1}{2}'$  off  
ground.

Nest check at Transfer #4, flushed ♀ off 4  
warm eggs - #3 is heavy shell (did not handle  
the nest) put down dog away.



July 1989

Journal

119

Russell Ranches, 2 mi NW Lafayette, Central Costa Co., Calif 1300 ft.

17 June Checked for territory of unmarked ♂ at E end of Russell Road (turn around circle). Looks like fledglings (at least 2).

18 June Found  $\times \frac{FW}{BK}$  with a family, at least 2 fledglings still being fed. Saw what looked like unmarked ♀ carrying wriggly insects. Lots of chirpy trilling but very little chipping. The family is in a draw on the S side of road 40yds from edge of road. Lots of PD; bay tree (30') and live oak 25' high. FW or <sup>wk</sup>  $\frac{1}{2}$  ad ♂ has moved S over the hill to the draw Sg Sharp-shin. When  $\frac{FW}{BK}$ 's went to Sg.

19 June In Bacharis S of  $\frac{1}{2}/\frac{FW}{BK}$ 's territory I saw FW  $\frac{1}{2}$ /BK fledgling from Marlbury bush in very close contact with FW  $\frac{1}{2}$ /BK fledgling. In the same area I saw ♂  $\frac{FW}{BK}$  and his long lost ♀ PD/ $\frac{1}{2}$  Yon!

21 June Nest check at  $\frac{1}{2}$  Yon, all 4 eggs gone. Heard singing, put in 4 House Sparrow Eggs in hopes they might return. Nest check at Transfer #4. Warm eggs, yeah.

Sayre Creek Field Station, 3 mi NW Forestville, Mendocino Co., Calif 6300 ft

21 June 1800 hours, nest check at Transfer #4, flushed unmarked ♀. Eggs have not hatched, are warm. I broke #3 (?) it was smelly, no sign of embryo. Nest check at  $\frac{BL}{1/BK}$   $\frac{1}{2}$ /FW warm eggs (heavy) flushed ♀. Found 2nd nest of  ~~$\frac{FW}{BK}$~~   $\frac{1}{2}$ /BK or and  $\frac{1}{2}$ /BK  $\frac{BL}{1/L}$ , 4 warm eggs flushed ♀ out of 1 1/2' hollow nest 6" off marshy bottom.



Smith, J

1989

## journal

120

~~Sagebrush Creek field station, 3 miles NW Hobart Mills, Nevada Co., Calif.~~

21 June 4 eggs 1 <sup>BW/ER's</sup>

	1	2	3	4
v	19.18	19.84	18.06	19.01
w	15.36	15.77	15.23	15.49
wt	heavy 2.0g	2.00g	1.50g	2.50g
remarks	cracked w/ calf	heavy	heavy	heavy one by hole

2nd nest is 20 yds w of 1st. about in a straight line  
 2nd nest for B-Yow's, in scrubby willow patch  
 15 yds sw of 1st nest, 4 warm eggs, flushed ♀.

	1	2	3	4
v	21.19	20.24	20.91	20.13
w	15.72	15.28	15.20	15.34
wt	2.50g	2.50g	2.50g	2.50g

remarks

too dark to candle. Saw ♂ (?) B-Yow P-Y-BL

22 June 2nd nest of Rd/B-W " for ♀ and ♂/BL ♂ 85 yds SW  
 of 1st in willow - 2' off ground, 3 warm eggs, 1 downy  
 (white) young

	1	2	3	Rf/egs
v	18.49	18.43	18.46	
w	15.64	15.46	15.62	
wt	1.50g	1.50g	2.00g	3.00g

remarks

heavy young heavy pipet

very cold this morning perch may be off



Smith, J.  
1989

Journal

121

Sayre Creek Ild Sta. 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft

22 June Found 2nd nest of  $\text{Bk}^{\text{FC}}$   $\text{Wh}^{\text{rd}}$   $\text{Lw}^{\text{OT}}$  and  $\text{Or}^{\text{FC}}$   $\text{Rd}^{\text{OT}}$   
2 warm eggs, flushed ♀ 15 yds S of 1st  
dove to edge of creek 5' from edge of creek.

	1	2	3	4
L	21.19	20.89	21.39	21.33
W	15.71	15.30	15.49	15.33
wt	2.00g	2.50g	2.50g	2.50
remarks	med	med	med/light	med

Found  $\text{Or}^{\text{FC}}$   $\text{Or}^{\text{FC}}$  ♂ his ♀ built 5' N of 1st nest  
Collect w/poop trampled ~~mostly~~ fledglings at  
 $\text{Bk}^{\text{FC}}$ 's

~~Hunzell Lake Res.~~ 2 mi NW Lafayette Contra Costa Co., Calif. 1300ft  
25 June Checked Transfer #5, cuts all over nest, 2  
eggs pipped saved egg #2 (only 3 eggs total.)  
The cheeks inside the eggs had well-developed  
bill heads hard to say what happened. Saw ♀ & ♂  
near fence on side of road opposite to the 2nd nest.

26 June Looked for  $\times \text{Wh}^{\text{FC}}$  2nd nest ♀ was not on eggs  
she would call (chirp) about every 10 minutes  
like she was with nestlings but was not coming  
up from a consistent spot.

26 June 0640 hours it is very quiet. I am at E most  
end of road. Borecks Wrens at Tonhees.  
 $\text{Bk}^{\text{FC}}$  ♂ (?) I think is singing. I have not seen with  
♀ or ♀ for sure. No sign of fledglings.



th, 9  
1989

Journal

122

Sagebrush Field Sta., 3 mi. NW Hibbart Mills, Nevada Co. Calif. (30°F)

8 July

5 found 2 young at nest 8  $\text{RD}/\text{FW}$   $\text{RD}/\text{FW}$  ♂  
and  $\text{OR}/\text{FW}$   $\text{RD}/\text{FW}$  ♀.

9 July

Transferred 5 eggs from  $\text{RD}/\text{FW}$   $\text{OR}/\text{BL}$  ♂ and  $\text{RD}/\text{FW}$   $\text{OR}/\text{FW}$  ♀ to  
 $\text{OR}/\text{FW}$   $\text{GR}/\text{OR}$  ♀ and  $\text{BL}/\text{FW}$   $\text{PK}/\text{BL}$  ♂. There are both 3rd nests

RD egg: unmarked to avoid picking Teepie around nest

	1	2	3	4	5 cowbird
L	18.84	19.00	18.39	18.73	saved
w	15.71	15.56	15.36	15.76	for later use
wt	2.0g	2.50	2.00g	2.05g	
remarks	heavy	heavy	heavy	heavy	

RD's 2nd nest had only 2 unhatched eggs in it, no sign of feeding

BL egg: unmarked put teepie around the nest

	1	2	3	4
L	20.80	21.66	20.59	cowbird
w	15.84	15.63	15.76	
wt	2.50g	2.50g	2.50g	
remarks	very light	very light	light	

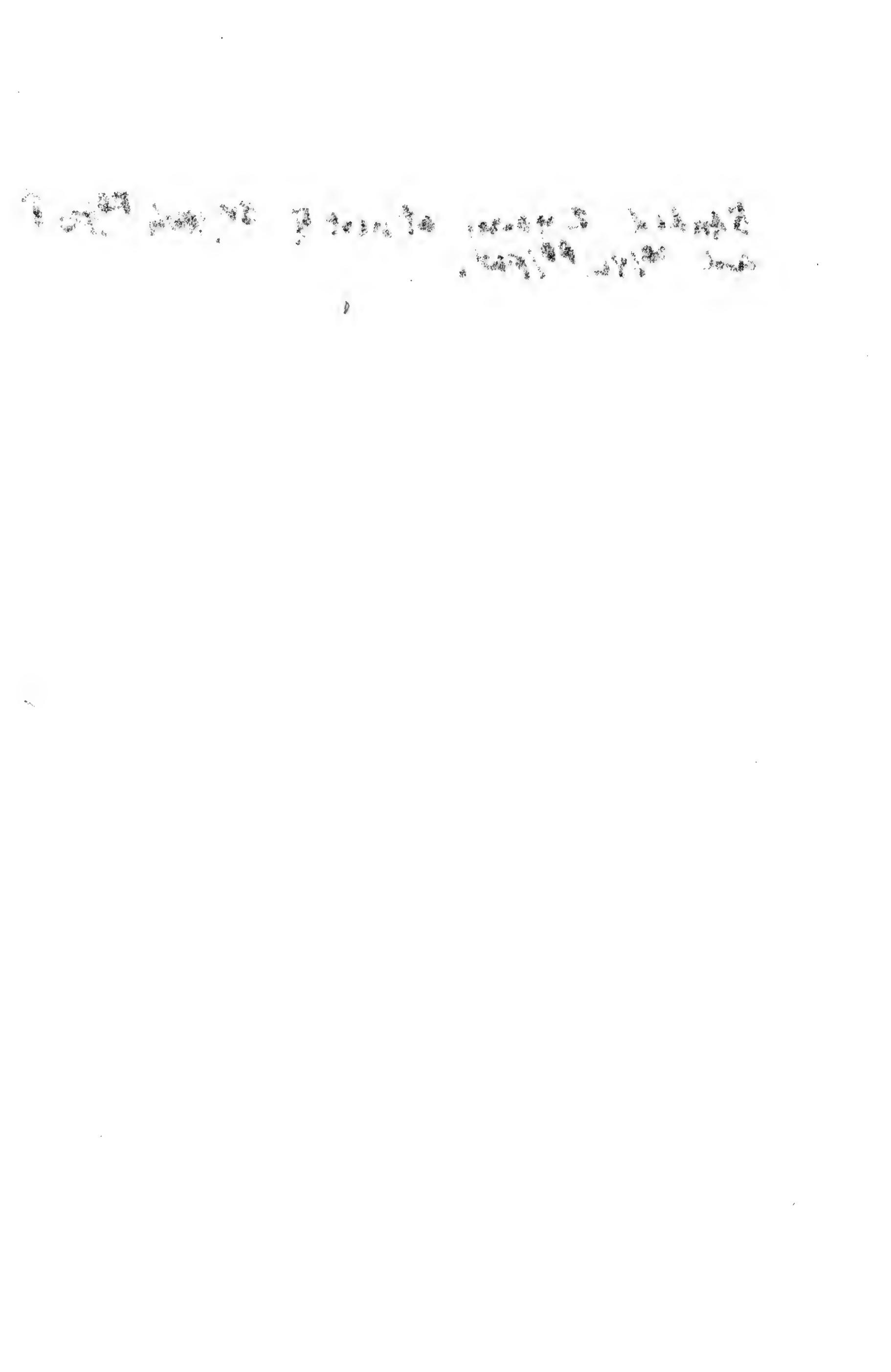
10 July checked  $\text{RD}/\text{FW}$  ♀ was in with teepie so was  $\text{OR}/\text{GR}$ 's ♀ in car or young.  $\text{OR}/\text{FW}$  ♀ was nowhere to be seen and eggs were stone cold.

Found nest of  $\text{EW}/\text{PK}$   $\text{TC}/\text{GR}$  with 2 eggs to transfer to  $\text{OR}/\text{PK}$  ♀ eggs

I put a screen Teepie around  $\text{PK}$ 's and put  $\text{OR}$ 's in a coffee can with netting on top making a A in the center.

2 people like cowbird but will use it

L	18.6g	20.78	added an old House Sparrow egg to complete clutch for transfer
w	15.00	15.68	
wt	2.00g	2.00g	
remarks	med/heavy	heavy	



July 1985

Journal

123

Sayre Creek Field Station, 3 mi. NW Hobart Hills, Nevada Co., Calif. 6300ft

10 July <sup>FW</sup> Loke's four eggs

	1	2	3	4
L	19.95	19.47	19.54	18.83
w	15.52	14.41	15.08	14.73
wt	2.50g	2.0g	2.0g	2.00g
remarks	heavy	leasy		

Buried tree Rd., 2 mi. NW Lafayette, Contra Costa Co., Calif. 1300ft

14 July Collected <sup>FW</sup> <sub>BR</sub> ♂ saw no sign of mate or fledglings

He is molting heavily. He is JIS 150

16 July Collected <sup>♂</sup> FW <sub>BR</sub> <sup>♂</sup> 2031-089512 Fledgling of <sup>JIS 151</sup> ♂ FW but reared by ♀ FW.

18 July Sayre Creek Field Sta., 3 mi. NW Hobart Hills, Nevada Co., Calif. 6300ft

Nest check at <sup>FW</sup> <sub>BR</sub> 3 abandoned eggs; no singing heard ♂ call infrequently did not see ♀. The Telpee had not been transposed with. Nest check at FW/BR's coffee can only had empty nest.

No sign of ♀ or young may have heard ♂ once or twice. Nest check at <sup>FW</sup> <sub>BR</sub>, flushed ♀ off of 4 eggs, heard ♂ sing. Nest check at FW/BR's heard ♂ sing, no sign of ♀.

19 July Egg switch between FW/BR <sup>W</sup> <sub>BR</sub> ♂ ad <sup>FW</sup> <sub>BR</sub> <sup>♂</sup> <sub>BR</sub> both ♀'s unmarked. Put nests in copper cans with initially no mesh. This is FW/BR's 3rd nest and at least 2nd for FW/BR.



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124

Sycamore Creek Field Station, 3 mi. NW Hobart Mills, Nevada Co., Calif 6800'

19 July 3 eggs of FW/BK for transfer (left unmarked)

	1	2	3
L	21.76	21.16	22.25
W	15.49	15.68	15.50
WT	2.50g	2.0g	
REMARKS	med	med	very light

3 eggs of FW/or for transfer (left unmarked)

	1	2	3
L	19.32	19.24	19.27
W	14.73	14.66	14.31
WT	med/heavy	med	med/heavy
REMARKS	2.0g	2.0g	2.0g

20 July Nest check at  $\frac{FW}{PK}$   $\frac{4L}{6L} 0^{\circ}$  with unmarked ♀, left only one broken ad added egg, ♀ ad  $0^{\circ}$  still in area, teeter still in one piece. Nest check at  $\frac{FW}{PK}$   $\frac{WH}{PK}$ , ♀ not on eggs but both ♂ ad ♀ calling near nest. ♀ appears to go to the can and then dash off, inside of can was warm at 0827 hours. Temperatures at mid-day have approached 90°F, I believe the eggs addle in the coffee cans during the time it takes the ♀ to heatuate.

Found nest of (at least 2nd since fledglings are in the area) WH/FW  $\frac{PK}{RD}$  ♂ ad unmarked ♀, did not fiddle with nest. Egg cool but ♀ in area chirping

	1	2	3
L	22.49	21.86	21.05
W	15.80	15.82	15.69
WT	3.75g	2.50g	2.50
REMARKS	med	med/lit	med



July 1939

Journal

(25)

Russell Lake, 2 mi NW Lodi, Contra Costa Co., Calif 1300 ft

23 July Banded adult, caught in Henlock patch (small) just south of large nutt Thistle,  $\frac{4}{L}/Fw \frac{BL}{4L} 2031-0897E$

Caught unbanded fledgling near Mulberry  
banded 2031-08971  $\frac{FW}{4L} \frac{GR}{4L}$

Saxker Creek Field Station, 3 mi NW Hobart Hills, Nevada Co., Calif 6300 ft

28 July Collected fledgling 2031-08990 left & red right.

Nest check at  $\frac{FW}{4L}/R \frac{WH}{4L}$  one nestly 2 unspotted eggs.

One of the eggs was out of nest in can so I put it back in. Nestly is ~2 days old rt leg black

bill length 2.30

depth 2.62

width ~~3.00~~ 2.38

wing length 6.72

tail length not out

Tarsus 5.15

Middle toe 7.54

hallux w/claw 4.34

wt. 2.50

remains seems listless

Nest check at  $\frac{FW}{4L}/R \frac{PK}{4L} \delta^1$ , 3 warm eggs no sign of adult, eggs all heavy shell.

Russell Lake, 2 mi NW Lodi, Contra Costa Co., Calif 1300 ft

1 Aug Banded  $\frac{FW}{4L}/BK \frac{BL}{4L} 2031-08974$ , in bait trap in thistle patch

3 Aug Caught 1431-14519<sup>JIS 155</sup> in bait in thistles. This is nestly of  $PK/FW$  reared by  $BL/FW$  (JIS 150)



July  
1939

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Sagebrush Field Station, 3 mi NW Hawthorne, Nevada Co., Calif 1300 ft.

5 Aug FW/OR Red/X banded at Coffee can nest  
Fledglings wh/FW PK/RD ♂ 2 nestlings banded FW/X wh/X

Russell Ave Res., 2 mi NW Lafayette, Contra Costa Co., Calif 1300 ft.

10 Aug Heard ♂'s singing at 0630 hours. Collected 1431-14517/  
X left ad <sup>BL</sup> PK right <sup>GR</sup> JIS 156.  
This is fledgling of BL/FW's at Mulberry tree. I collected it in a bait trap at henlock patch  
5 of Milk Thistle. Also saw FW/X BL/PK in same spot.

12 Aug Collected 1431-14521 left + PK/BK right (JIS 157) + unbanded  
JIS 158.

15 Aug Collected unbanded JIS 159 <sup>second</sup> at Mulberry Bush. Saw  
♀ BL/FW + FW/GL + FW/X BL/?.

17 Aug Collected ♂ PK/FW BL/BK (FWS 2031-08908) JIS 160. At  
Henlock where 1st pair was

18 Aug Collected ♀ BL/FW GR/FW <sup>OP</sup> GL JIS 163 (2031-08933) parent of JIS 156.  
Shot at Mulberry where nests were.

Captured 2031-08901 GR/FW <sup>GR</sup> GL at henlock patch 35 yds  
S on road from Mulberry. Re-measured and weighed

Bill length 8.97 Depth 5.77

Width 5.17 wing length 52.84

Tail length 53.72 Tarsus 17.51

Middle toe 18.60 Hollow w/Claw

Claw 2.06 + 2.06

Molt 1st 5/10<sup>th</sup> in pin, All but 5 tail feathers

completely in pin

fat much

Remarks Left 1st toe

very belly

refined

wt 19.00 gm

Broodpatch present

21 Aug Collected 2031-08936 PK FW BK JIS 164 + 2031-08902 GR OR  
FW BK

JIS 165 both at S edge of Milk Thistle near feeding station. Also  
saw RD/FW <sup>GR</sup> in same area

/

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Russell Creek Res., 2 mi NW Lafayette, Contra Costa Co., Calif. 1300 ft.

23 August Collected 2031-08904 ♂ <sup>BL</sup> <sub>FW</sub> <sup>RD</sup> / GR at M.I.K.

Hinsdale, JIS166 - Mate of JIS163 & parent of JIS156.

Sayre's Creek Gold Station, 3 mi NW Hobart Mills, Nevada Co., Calif. 6300 ft.

9 Sept Collected JIS172 (2031-08949 <sup>BL</sup> <sub>FW</sub> <sup>RD</sup> / OR) ♀ was E ♀  
nest site only creek ~ 3/4 miles in former territory of <sup>FW</sup> <sub>PK</sub> ♀.  
JIS173 ♂ (1431-14510 <sup>FW</sup> <sub>OR</sub> <sup>WH</sup> / PK) shot near territory. JIS174  
♂ (2031-08926 <sup>GR</sup> <sub>FW</sub> <sup>RD</sup> / R)

12 <sup>October</sup>  
~~September~~ No specimens left at station. All leaves on the willows  
are gone. It snowed last week and shortly most willows  
dropped their leaves then.

Albany, Alameda Co., Calif.

21 Oct At noon on a bright sunny day mother and I headed  
out on 580W to the Richmond - San Rafael Bridge  
to 101S to Mill Valley. stopped at Smith + Hawken's  
Garden Center of S. Blithedale Avenue. From there  
we headed N on 101 to Santa Rosa. We went west  
out of ~~Santa Rosa~~ Cotati we took 116 west to Sebastopol.  
Just N of Sebastopol we stopped at Russian River  
Vineyard where they bottle Topolos wine. Their  
ultra Zinfandel was excellent (Gold Medal winner)  
will try another wine. Also had restaurant but not  
one that we didn't stay. We spent the night with  
B+B from PEO on Stoetzel Road off of Harrison  
Grade Road.

1 mi N of Occidental, Sonoma Co., Calif. 2325 ft.

For dinner mother & I went to The Blue Heron  
in Guerneville. Moscow Road at Route 116



The  
Blue Heron  
Restaurant & Tavern

TOM HARGADON  
Owner

(707) 865-2225

Moscow Road at Route 116, Duncans Mills, CA 95430

21st, 8

# Journal

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1mi N Occidental, Sonoma Co., Calif 238ft

We had a very nice meal for ~\$50. To get there we took the Bohemian Hwy north out of Occidental for ~10 miles <sup>took 1-20-30 minutes b/c it's winding</sup> to Monte Rio. At Monte Rio we went west on 116 for ~5 miles. The restaurant is on the S side of road in a small mall area with a small motel and general store.

22 Oct We left our B+B at 0815 hours headed N to Monte Rio again on the Bohemian Hwy. We went west on 116 toward Jenner. Saw seals on sandbar. Drove N on to Myers Grade Rd just south of Fort Ross Hwy is closed at Fort Ross due to fallen rock.

On Myers Grade road we found a local glass blowing artist, mother taught paper weight for Renée (\$20) on our return trip. We drove on Myers Grade until it led us back to Hwy near the Kruse Rhododendron park (we did not stop since it was not the right time of year for flowers.) We continued N on Hwy past Stewart's point to the Sea Ranch. We stayed at the Sergeant's B+B 5 miles north of Sea Ranch Lodge on Bossari's Reach #72 (on W side of road). Mary Ann was nice B&B lady, her husband is gynecologist. Their cabin was separate from their main cabin with nice view of ocean. Not much beach to walk on but lots of neat houses. We arrived there at 1030 hours. After checking in with the Sergeant's we took off S on Hwy to Stewart's Point. We went E out of Stewart's Point to Healdsburg a 2 hour drive very pretty drive.



1939  
1939

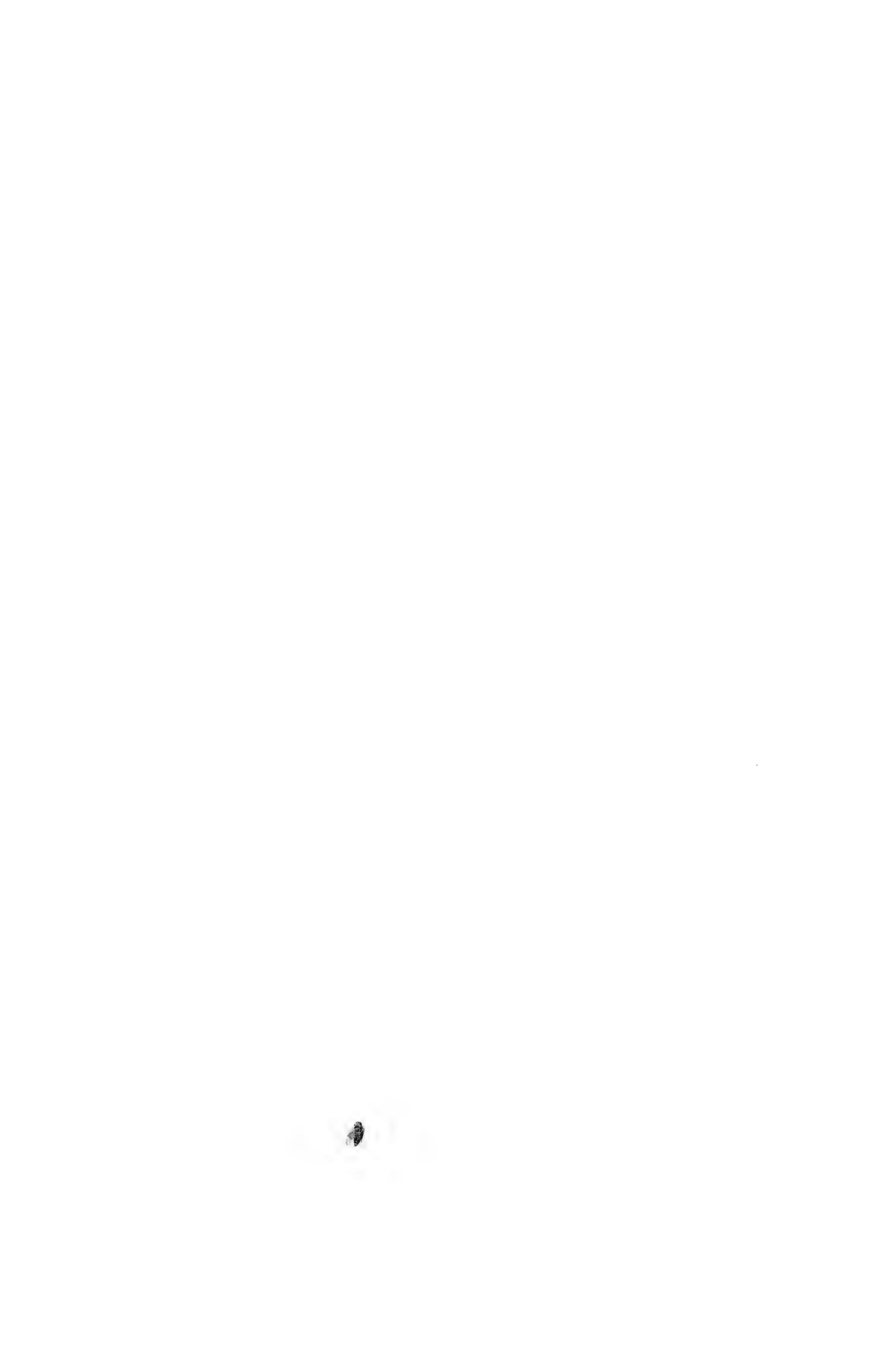
Journal

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The Sea Ranch, Smly N of Stewart Point, Sonoma Co., Calif 100 ft

22 Oct

The drive starts out in coastal Redwood Canyon. Then turns up in altitude to drier scrub oak and Madrone and finally ends in wine country. We stopped at Johnson's Vineyard (terrible wine) and at another part (E) of Johnson. I think it was Redwood Vineyards which had a very nice Sauvignon (\$6 for a split). We took (128) out of Geyserville to St. Helena. We stopped at Henry Evans botanical print shop on Pine street (go left  $\frac{1}{2}$  blk off of 128). Pine st is one of the 1st streets in Town (at the Police station). We then went ~~to~~ N on (128) to do some wine tasting. Most vineyards were closed at 4:30 pm. We stopped at Folie à deux. A small vineyard N of French on E side of road. Very nice 1936 Chardonnay. We tried to go to Sterling Vineyard (looks like elaborate tour with a train) but they were closed at 4:30. Went to Beringer which is S of Folie à deux on (128) just before town on W side of Road they were open until 5:00 pm. Wine was average, but had lovely gardens and restaurant looked nice. We then went back to St. Helena S on 128 to Dansk shop which is on W side of road on S side of town. We ate a wonderful Italian dinner at Tra Vigne which is directly across the street from the Dansk store. I had pesto ravioli + mother had chicken. They had great boscotti and breads. Reservations were a good idea. We ate at 6:00 and then headed back to sea ranch. Long day



1st, J  
1989

Journal

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The Sea Ranch Bldg N of Stewart's Point ~~is 2000 ft long~~ 100 ft.

23 Oct Fueled up at gas station in Stewart's Point. Drove N on Hwy 1 to Guadalupe. Small town the hotel smelled very rusty not appetizing at all. We found a nice cal cuisine catering with small lunch & dinner service just on N side of Guadalupe on Hwy 1 it is on W side of Hwy 1. I think it was called Cook's Catering. We got some very nice bread, veal, ribs, & dessert of Keller chocolate cake. Had soup there for lunch. North of Guadalupe we came upon a fancy B+B St. Orres it is ~ 4 miles N of Guadalupe on E side of road see Turrets it looks quite Russian. Had beautiful restaurant with very dinner service (\$27/person). Looked quite nice. We returned to sea Ranch and walked along the beach. Motor had never played with help before, she really enjoyed watching the tide come in. Too windy for her so we didn't stay long. Saw Willets and Western gulls.

Sandwiches and Black Turnstone. Had dozen of fancy catering and drank on Chardonnay from Folie à deux

24 Oct left sea Ranch at ~1000 hours drove down Hwy 1 to Myer's Grade detour, stopped at Star flower shop saw double rainbow just N of Jenner. Went on to Sir Francis Drake at Okoma went E to Hwy 101 S into SFO. ate lunch at Port deli on Sanchez at 16th and went to Joanie Chan outlet off 777 Florida st just 2 BIKS <sup>(rt or s)</sup> up from 16th. Got home ~3<sup>00</sup> pm had to take Surfside bridge because of the earthquake on the 17th of October knocked out Bay Bridge.



11, J  
1989

Journal

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Tucson, Pima Co., Arizona

28 Oct

For \$127 I flew from Oakland to Phoenix to Tucson on America West. Carla Cecio picked me up at airport at 3<sup>30</sup> pm. We went grocery shopping at Alico on Valencia Road (took a left out of Airport parking lot then another left onto Valencia went ~2 miles to grocery store.) We left Tucson at ~5<sup>00</sup> pm headed E on Interstate 10 to Willcox. We fueled up at Chevron just off Interstate big gas/grey area for trucks etc... lots of motels and Pizza hut (Motel 6, Best Western and Comfort Inn). We then went S out of W. Willcox on route 186 ~39 miles to Coronado Nat'l Forest. We stopped at Chiricahua Nat'l Monument hdgs but they were closed so we headed into the forest, stayed in one of the 1st campgrounds we came to. Lots of deer hunting and RV's gears! we arrived ~9<sup>00</sup> pm

29 Oct

Coronado National Forest, Tucson Co., Arizona

Woke to the sound of Gray-breasted Jays. Very small bills all dark faces. Saw flock of Crossbills, some much deeper than those at Sogoba. Just back on road toward Portal. Went past Divide saddle and stopped at Campsite just w of Silver Peak. We got three Hair tuncie in that area saw 2 Bridled. In the afternoon we went further down road past portal onto Hwy 80 going S to Pine Canyon Road.

Beautiful area of the Park. At end of road a trail lead to Silver Peak (~6 miles) cool, deep canyon steep hills with Pines and Oaks. Had to



Sept, 1989

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Coronado National Forest, Cochise Co., Arizona

29 Oct Drove thru private ranch to get back onto National Forest land. It looked like a bad place for Tits so we went back to Silver Peak area.

30 Oct We hiked all day 0720 hours to 1500 hours did not see any Plain Titmice only Bridled. Shot a <sup>w Ring-tailed</sup> <sub>just past area</sub> <sup>n Hutton's</sup> Hutton's Vireo in dry river bed it was in Oak canopy, for Ned. We drove to Portal to get lights in Camper fixed. We had turned out a fire.

San Cardinals + Curve-billed Thrashers at General Store. We then went N out of Portal toward Paradise. Caught in P.S. along the road. Saw Sage Thrashers, Curve-billed and Crissal Thrashers. Lots of Plain Titmice on W

side of road, more bridled on Oakier Eastern side. We got 6 birds, Saw Key-tailed Catbird <sup>seen</sup> ~~in~~ <sup>Yellow</sup> ~~area~~ <sup>area</sup>

1 Nov hunted same area again. I was on S side of road saw no Plain T. mice, 3 Bridled. Mountain Bluebird, Sharp-shinned Hawk at a bear cub. Left in the late afternoon for Willcox. We stayed in comfort Inn (45) ate at Pizza hut. Skinned Tits until 2:00 AM.

2 NOV Willcox, Cochise County, Arizona

Had continental Breakfast in hotel lobby (Stale donuts, horrid coffee). Headed W on 10 Interstate for Pima. Arrived in Tucson ~230 pm (~6 hours from Willcox). Called the refuge from Tucson (602)-783-3371. The manager W.H. Nydecker was on

W.II Nyd~~ek~~<sup>Refuge</sup> d~~ecker~~, Manager

Imperial Nat'l Wildlife Refuge

P.O. 72217

~~Martinez Lake~~ Martinez Lake, Arizona

85365

602-783-3371

WTH, J  
1989

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## Journal

### Yuma, Yuma Co., Arizona

2 NOV

vacation but the secretary Melody was expecting us. From Yuma the refuge is ~45 min north. Take route 95 (16th st.) north out of Yuma (toward the Yuma proving grounds), <sup>20 miles</sup> ext on Martinez Lake Road. <sup>sign to refuge</sup> Go west (left) for ~15 miles where road will fork just after a speed limit sign. About 50yds up on the right will be a sign to the refuge and a MCAS go right down this dirt road ~4 miles to where the road forks - signs point to right for refuge and straight to MCAS. Go right see refuge Hdg's and residences. Melody had left by the time we arrived ~3:30 but she said Bob + Eddy in the shop (around the back road of Hdg) would be able to help. The guys were working on a farm field to support the geese population. Eddy offered to take carla + I out in a boat the next morning. He also directed us to a cattail marsh on Calif. side we could drive to that night. We took 95 south to Imperial Dam road (see Army installation with large guns marky entrance). Go west down this road ~2 miles. Just over the dikes go right on Senator Wash Road. Then take Ferguson Rd <sup>8 miles</sup> to Ferguson lake it's ~1/2 hour drive from the refuge. No song sparrows. Lots of cattails, w/ white-crowned + Lincoln's but no Song. They let us stay in refuge residence. They were very comfortable. Apartments 2 bedrooms with mattresses, bathroom, stove and big kitchen.

Ken Voget, refuge manager  
Salton Sea National Refuge  
P. O. 120

Calipatria Ca

92233

619-348-5278

11, J  
1989

Journal

(34)

Imperial National Wildlife Refuge, 20 miles N of Yuma, Yuma Co., Ar. zone

3 NOV

Eddy took us to Ferguson Lake in large Police boat. We found no sparrows. We returned to refuge and were outfitted with flat boat with 8 hp evinrude. Again we went to hunting area along Ferguson Lake where there were many cattails saw and heard no song sparrows. We returned to refuge ~3:00 pm showered and headed west on Interstate 8 out of Yuma to El Centro, California. 7 miles W of El Centro we exited North onto Forrester Road. We went North thru Westmoreland. 8 miles north of Westmoreland see signs to refuge. At the sign that leads 3 miles to Salton Sea Nat'l Refuge arrow points straight the main road curves abruptly to the right. Do not turn, stay straight. On left see ~~the~~ local Geothermal Plant. <sup>1 mile further is refuge</sup> The road will T at the refuge. Go left (S) for 25 yds to Hdg. Ken Vogt is Refuge manager. Chris (from Humboldt/ Yuma Ralls) and Ramon are refuge employees. We arrived 3 hours ( $7^{\text{30}}$  pm) after we left the Imperial Refuge.

4 NOV Salton Sea National Refuge, 7 mi. NW Calipatria, Imperial Co. Calif - 80K

We banded 6 birds (Black Phoebes) with Ken, Chris and Ramon at 7:00 am. At 0800 hours Chris took us out in refuge vehicle. We walked along dike for 2 hours saw only dark son, Sparrows. Saw 2 Saltonis in cattails along dikes. Lots of Savannah & Grasshopper sparrows. At 1000 hours Chris drove us to Bruchard Bay. It is  $\frac{1}{2}$  N of intersection of Bruchard and Foulds road.



17th, 8  
1989

Journal

135

15 miles WSW of Calipatria, Bruchland by Salton Sea, Imperial Co., Calif. 68 ft

4 Nov 15 miles WSW of Calipatria. This was a thick marsh  
water 2"-12" deep of Cattail + salt cedar on W side of road. The  
E side had been drained + turned. Chris said it  
was to be replanted soon. The sparrows were thick in  
the salt cedar. They responded to playback (5 sang at  
many individuals "chimed") of Sagebrush Sparrows. The  
darker 'aces' wintering in the area did not respond  
to playback vocalily. I shot 3 saltoriis and 1 darker  
form, Carla shot 3 saltoriis, ~ 3½ - 4 hours of hunting.  
We stayed in a 500 yd<sup>2</sup> area. The Salton Sea bounded  
us to the N and we only walked 200-400 yards to the S  
and another 500 yards E into marsh. Heard SORA'S and  
saw American Bittern and Black-crowned night heron.  
We left the refuge ~ 2:00 pm headed north out of Calipatria  
on route 111 (past date farms and Dole fruit factory). Hitched  
up with Interstate 10 at Indio, we took I-10 to I-5  
in L.A. Then north to Bakersfield, just before Bakersfield  
we went W on (119) camped on BLM land 3 miles  
outside of Tujman. Saw kit fox, heard Burrowing Owl  
(Burrowing, id) Yipping. Skinned sparrows until  
2:30 AM.

5 Nov 20 miles NE of Taft, Kern Co., Calif. 92 ft 98° of (119)  
Left the area 0800 hours arrived Berkeley 1pm



J. I. Smith

1988-1990

Species Accounts



Smith, J

## Pygmy Owl

25 Feb 1990 Landels-hill Big Creek Reserve, San Lucia, Monterey Co., 200 ft elev.

Up ~200 ft from creek bottom along the road from the house ~1 mi or 1½ miles. The vegetation grows up as you climb the trail. I heard the owl giving the slow monotone "hoo-hoo-hoo". The sound of the "hoo" has an airy quality like a rubber doll when squeezed at the middle, but not so squeaky.

Quite a breathy tone. It also did a very melodic "rattle-cha" of a Golden-fronted Woodpecker. It came in ~10 yds from me when I imitated it with a whistle.

It is a diminutive owl approximately 5-6" in length. The body is stocky, but the tail is narrow (~"wide) for the breadth of its chest. It is a russet colored back, the belly is predominantly white with streaks of russet, the tail is dark with white bars. When it flies it looks like a varied thrush --- broad body, long wings but short tail. When I called it up it perched ~12' high in a juvenile tan-bark oak?). It then flew to a larger Redwood where it perched near the trunk (~1') at 20-25' high. The tree's berries were bright gold surrounded dark points. The feet were yellow as well as the feet. The back is olive brown not quite russet, the white streaks start ~ at the tips of the 1°'s and continue up ~1" but then back looks solid.

Eyebrows are flecked white on brown. It perched in a oak ~20 yds from me (it is 20' up) it had its back toward me but would rotate its head all around to look at me as I called to it. Stellar's Jays were quite noisy in the area dwarfing the owl in comparison of body size. It has dark patches<sup>(2)</sup> on nape that look like eyes.



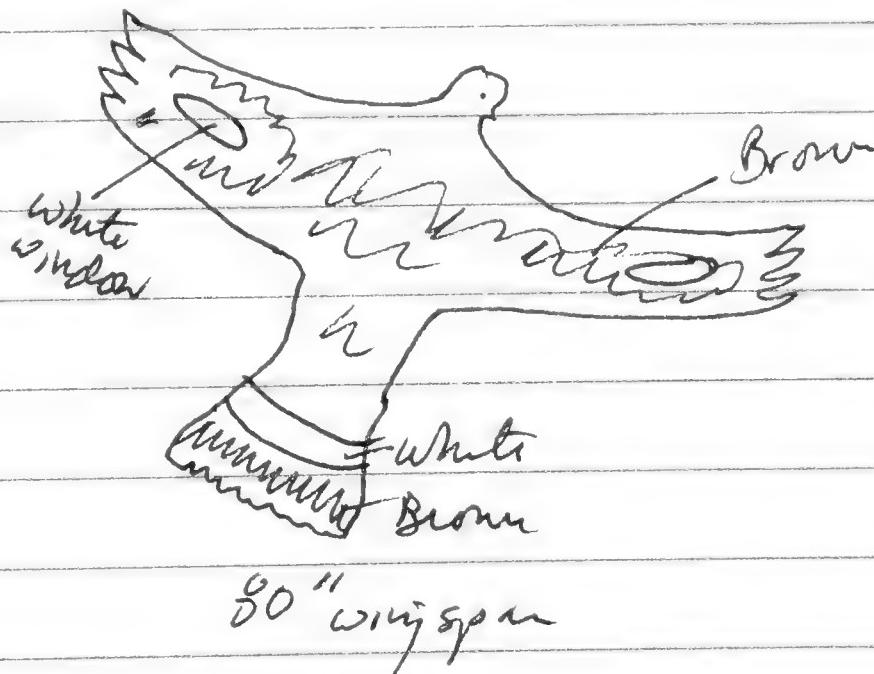
Smith, J

## Golden Eagle

15 December 1988 Zuni Indian Reservation, McKinley Co., New Mexico

2:38pm spotted immature soaring over pond  
on NE side of town before Black Rock.

2 Ravens were flying within 15' of the Eagle.  
The one Raven I observed pulled its  
leg away from the tail as if it were  
going to parachute down onto the eagle  
but in reality it only dropped to within  
6-8'. The Golden Eagle was easily  
identified as immature by distinct white  
tail band ~3" from dark tip and white  
windows on underside of wings.





mit, 8

## Williamson Sapsucker

17 June 1933 Pinyon Pines, Taos Natl. Forest 1.5 mi S of Sagehen Field Station,  
Nevada Co., Calif.

Spotted a male ad female. 1st saw ♀ thought  
it was flicker though breast was too yellow.  
It (♀) flew to dead pine at ~ 2' off the ground no  
sound. 5:00 pm, sunny day. ♂ came in after  
♀ had gone flew to same dead tree. Back of  
male is very black. Had red on chin and  
white eyebrows and wing patches a little smaller  
than a flicker. Lge (1½") strong feet.

(E. Pie Mesa)

16 December 1933 <sup>20 mi</sup> Sidney Reservation, McKinley Co. New Mexico

Found this bird in top of 35-40' FR. It  
taps slowly, moderately and quite quietly.  
Sounded like pecking at wood not pounding.



nuth, J

## White-headed Woodpecker

- 20 May 1989 ~~Sayrean Cat Field Station, Nevada Co., California~~ <sup>6300ft</sup>  
In dead pine it was about 6' off ground at the base  
upslope. Head was brilliant white with red nuchal  
patch. Back all black. It was staying within 20yds  
of the creek flying from live to dead pines.
- 21 May 1989 Found nest hole. Plushed ♂? ~8' up there is  
a series of 3 holes. Hole pine tree. Also  
seen to be House Wrens in the  
vicinity. The nest tree is 40yds  
W of <sup>FW/BR OR</sup> <sup>ED</sup> nest at E ~75  
yds from <sup>PT/FW</sup>
- 05 starts?  
OK nest



Smith, J  
1933

## Hairy Woodpecker

19 June Penny Pines, 1.5 mi. S of Saphir Creek field station Nevada Co.  
Hairy male is making an incredible racket "cha - cha - cha - cha" accelerating sometimes ending with a peek. He started this as I moved into an area of dead pines. and he has been following me for 15 minutes or at least he appears to be following me. He will call from about 25-30' off the ground. He corks his head around at me the way golden-fronts used to do. He will peck the tree 6'/t min ad me ad the peck around the corner. or he'll be on the tree sideways to me (i.e. I have side view) ad he will pull his head away from the tree and turn it so one eye ad no other looks at me. It is 10:23 am & have the paraffin with me perhaps he is nervous about that.

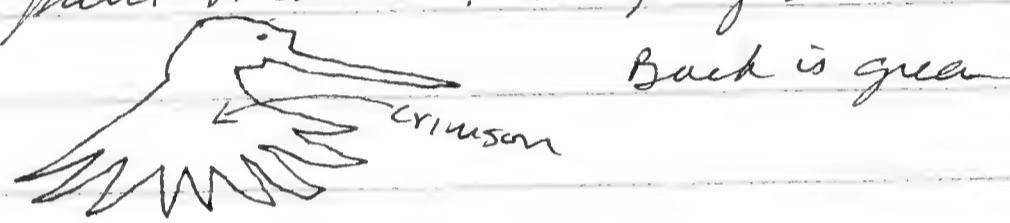


March 18

## Caliope Hummingbird

21 May 1989 Sycamore Creek Field Station, Nevada Co., California 6300 ft

0700 hours, 250 yds east of station in a willow. Caliope will make a full circle & display like an Anna's but they have a very smooth call a <sup>Buzz</sup> ~~zzzzzzzz~~ very hi pitch and soft melodic not raspy. <sup>except at beginning</sup> The color of the male's gorget fans out from the throat to the breast like paint brush strokes, very brilliant crimson.



like an Anna's, sides of breast appear rufous.



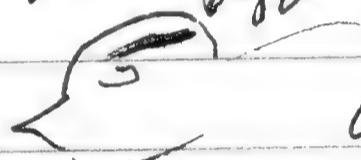
Smith, J

## Mountain Chickadee

18 June 1988 Sogher Creek Field station, Sierra Cox California

In a dead hollow pine tree 20' 5" off Sogher Creek just west of the campgrounds of the Natl Forest ~500yds. Found a nest of Mountain Chickadee 7' up in hole. Chickadee sounds like a house Black-capped and also much slower "Chick - adee - adee - adee"

White eyeline over eye is very thin hard to tell if it is just black underneath or a <sup>very</sup> light



When I walked past the tree at least one indiv. buzzed out of the hole and I felt the wind displace the hair on the top of my head.



Sunday

# Towrseid's Solitaire

West Branch Main  
Galestina

16 Decade  
1938

Zuni Indian Reservation, ~~on~~ Canyon, 6400 ft.

Micahay Co. New Mexico

Bright, sunny day ~50, light wind, high  
sciss clouds. Heard Towrseid's solitaire  
as we descended into the canyon of sandstone  
and Day Fir. The call note is a clear  
high tone ( $\sim C^{\#}$ ) can be repeated in  
succession but not held long. Its call  
is a clear, brilliant "Whoop-dee-doo!" rising  
at the end, dying in pitch in the middle.  
John Grobet said that they hold territories  
all winter long so they will sing regularly.



Smith, J

Northern Shrike

6 December 1988

Zuni Mts., McKinley Co. New Mexico

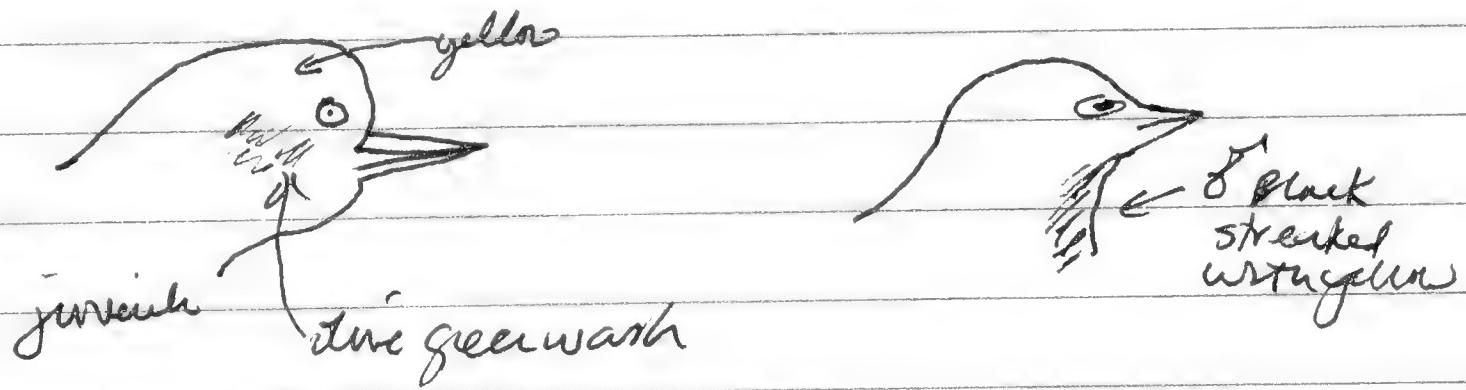
in Pinon-juniper savannah



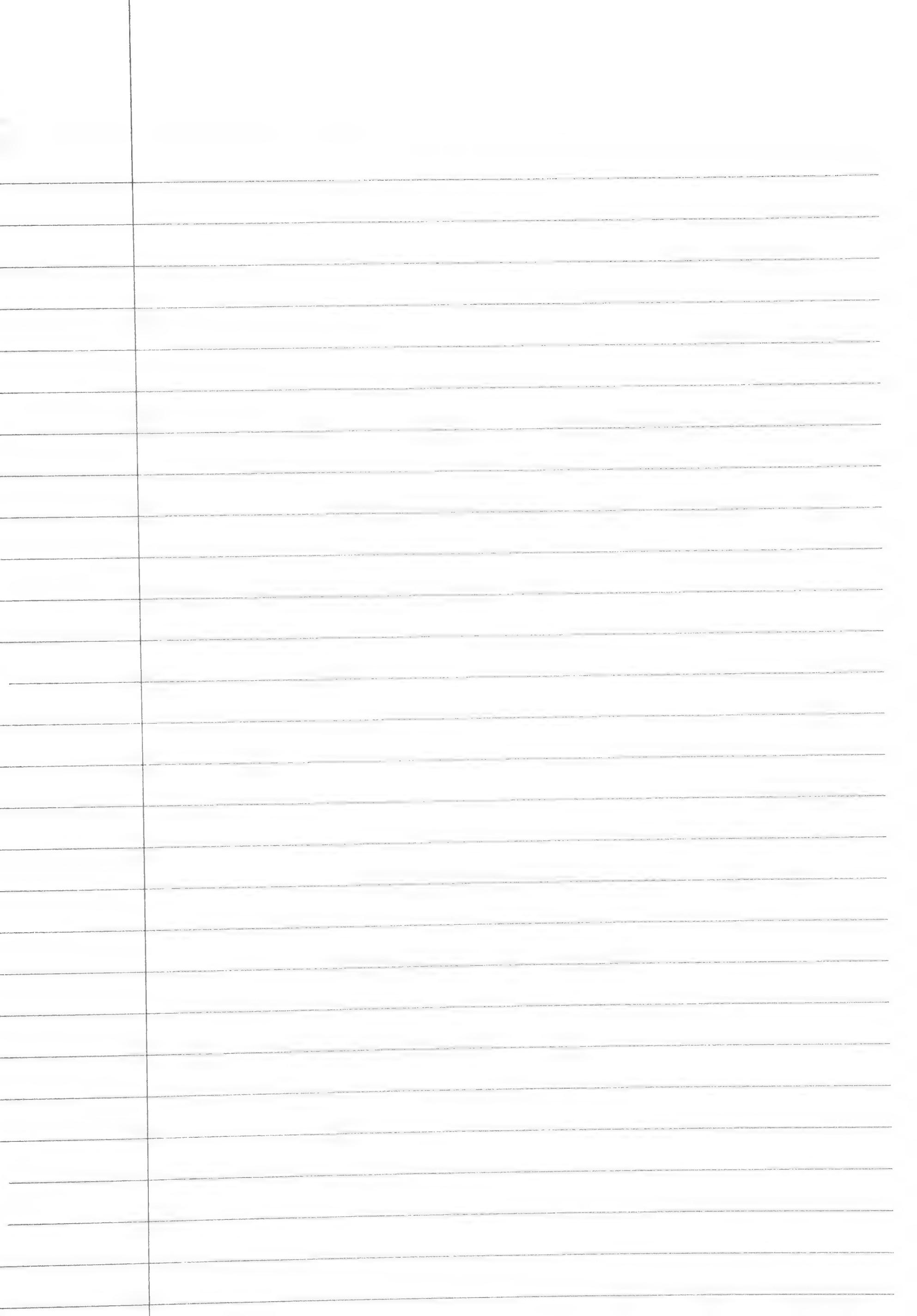
Smith, J

## Hermit Warbler

10 July 1988 Penny Pines, 81.5 mi S of Sycamore Creek field sta. Nevada Co. Calif  
Saw ~3 pairs 12 juveniles were seen following adults. I recognized the juveniles by the small green check patch or a predominantly yellow cheek. All individuals had white bellies, 2 white wing bars on blue-gray mantle and some of them had black throats of a ♂.  
They did not call & only heard sipping sounds.  
Heads are predominantly yellow.







1870

1870











